

10/530017

Test Receiver Operator Characteristic (ROC) curves

M2570_53 by SAMP_GRP

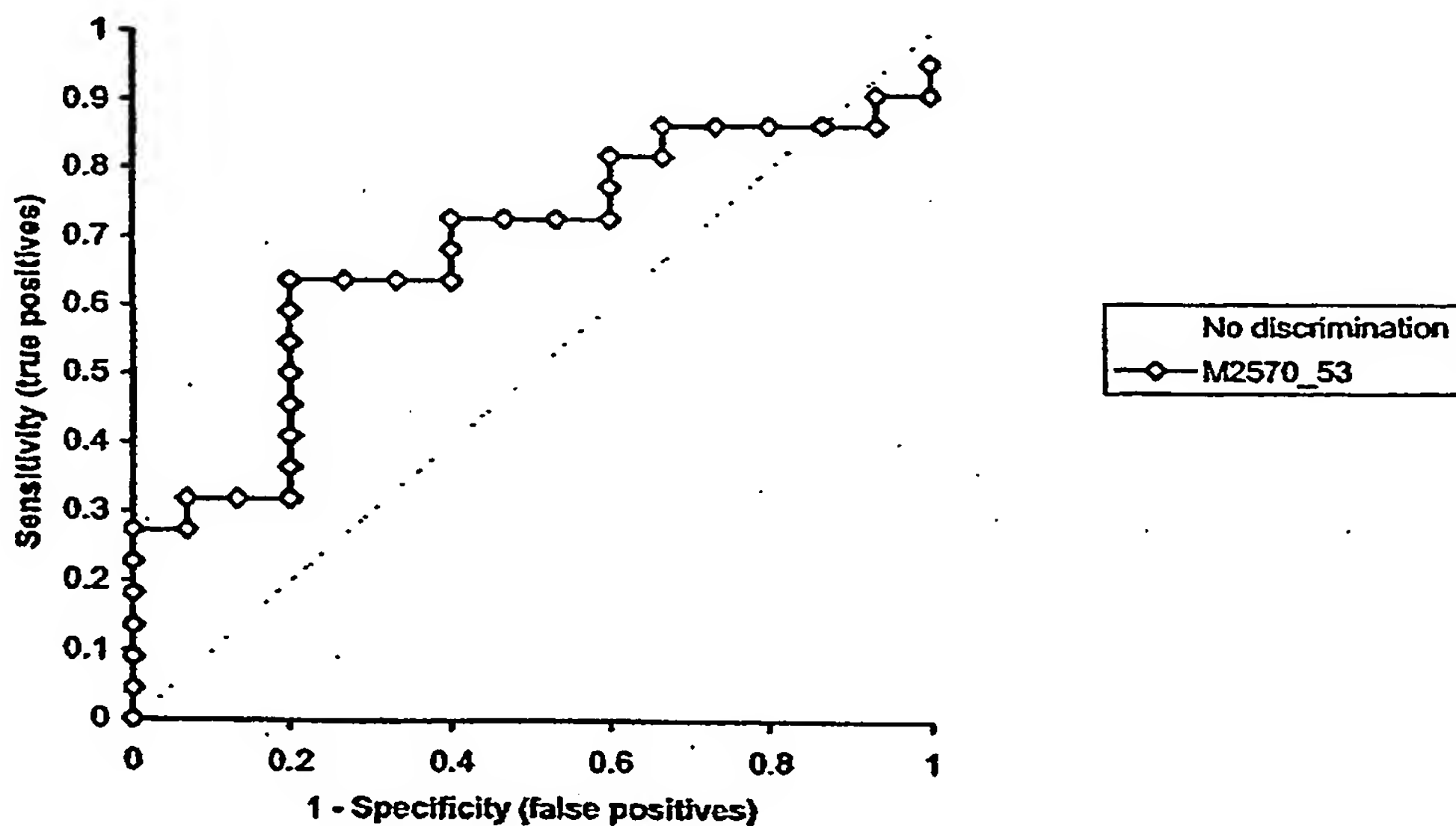
Performed by Benjamin Silverman

Date 15 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M2570_53	0.679	0.0893	0.0226	0.504 to 0.854	have higher values



M2570_53 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-2.269465893	95.5%	0.0%	21	0	15	1

FIGURE 1A

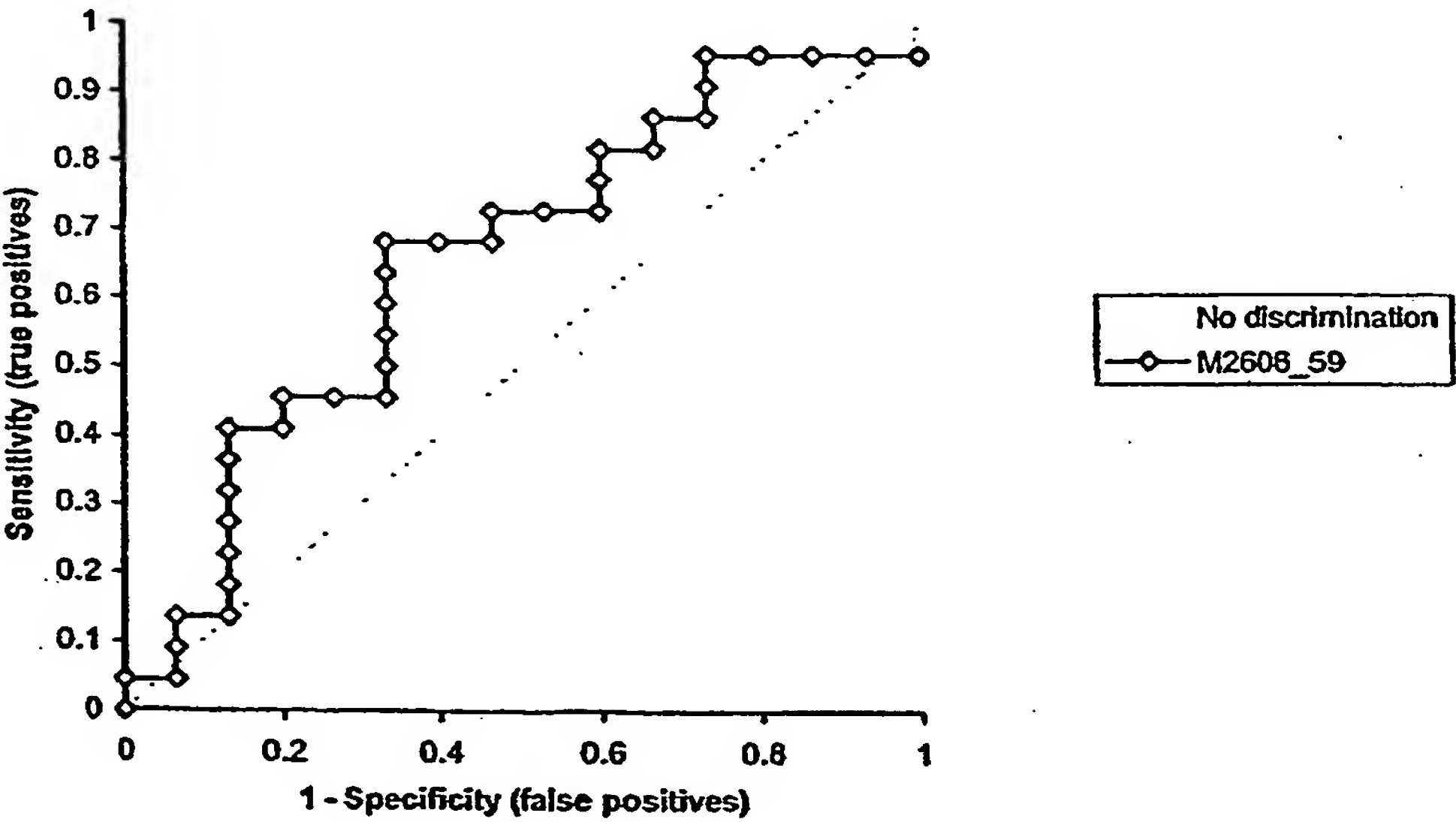
10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M2570_53 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	15 August 2002
-1.951002658	90.9%	0.0%	20	0	15	2	
-1.83330003	90.9%	6.7%	20	1	14	2	
-1.269532325	86.4%	6.7%	19	1	14	3	
-0.749250767	86.4%	13.3%	19	2	13	3	
-0.686191804	86.4%	20.0%	19	3	12	3	
-0.480561789	86.4%	26.7%	19	4	11	3	
-0.24696523	86.4%	33.3%	19	5	10	3	
-0.164089193	81.8%	33.3%	18	5	10	4	
2.081687311	81.8%	40.0%	18	6	9	4	
3.295632696	77.3%	40.0%	17	6	9	5	
3.365034205	72.7%	40.0%	16	6	9	6	
3.59872779	72.7%	46.7%	16	7	8	6	
3.616006133	72.7%	53.3%	16	8	7	6	
3.817845849	72.7%	60.0%	16	9	6	6	
3.83625841	68.2%	60.0%	15	9	6	7	
3.939338679	63.6%	60.0%	14	9	6	8	
4.158036338	63.6%	66.7%	14	10	5	8	
4.708928058	63.6%	73.3%	14	11	4	8	
4.720146774	63.6%	80.0%	14	12	3	8	
4.848737034	59.1%	80.0%	13	12	3	9	
4.883287628	54.5%	80.0%	12	12	3	10	
5.58382828	50.0%	80.0%	11	12	3	11	
5.63657289	45.5%	80.0%	10	12	3	12	
5.97481079	40.9%	80.0%	9	12	3	13	
6.303358832	36.4%	80.0%	8	12	3	14	
7.678719546	31.8%	80.0%	7	12	3	15	
8.0975886	31.8%	86.7%	7	13	2	15	
8.927745106	31.8%	93.3%	7	14	1	15	
9.115824471	27.3%	93.3%	6	14	1	16	
9.841141821	27.3%	100.0%	6	15	0	16	
9.880647941	22.7%	100.0%	5	15	0	17	
10.02241699	18.2%	100.0%	4	15	0	18	
10.07505391	13.6%	100.0%	3	15	0	19	
10.65260521	9.1%	100.0%	2	15	0	20	
16.80229123	4.5%	100.0%	1	15	0	21	
102.3283407	0.0%	100.0%	0	15	0	22	

FIGURE 1B

10/530017

Test	Receiver Operator Characteristic (ROC) curves				
	M2606_59 by SAMP_GRP				
Performed by	Benjamin Silverman			Date	14 August 2002
n	37				
SAMP_GRP	n				
0	15				
1	22				
Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M2606_59	0.655	0.0941	0.0502	0.470 to 0.839	have higher values



M2606_59	Sensitivity	Specificity	TP	TN	FP	FN
(abnormals above cut-off)						
-1.080932112	95.5%	0.0%	21	0	15	1

FIGURE 2A

10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M2606_59 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
0.027827364	95.5%	6.7%	21	1	14	1	
0.683141072	95.5%	13.3%	21	2	13	1	
1.149352525	95.5%	20.0%	21	3	12	1	
2.01440388	95.5%	26.7%	21	4	11	1	
2.950097316	90.9%	26.7%	20	4	11	2	
3.291169441	86.4%	26.7%	19	4	11	3	
3.426174559	86.4%	33.3%	19	5	10	3	
5.038025584	81.8%	33.3%	18	5	10	4	
5.08703796	81.8%	40.0%	18	6	9	4	
5.543285249	77.3%	40.0%	17	6	9	5	
6.109528354	72.7%	40.0%	16	6	9	6	
6.138626935	72.7%	46.7%	16	7	8	6	
7.607489067	72.7%	53.3%	16	8	7	6	
7.910857563	68.2%	53.3%	15	8	7	7	
8.75882275	68.2%	60.0%	15	9	6	7	
8.819047007	68.2%	66.7%	15	10	5	7	
8.980914241	63.6%	66.7%	14	10	5	8	
9.709094988	59.1%	66.7%	13	10	5	9	
10.08745897	54.5%	66.7%	12	10	5	10	
11.04608025	50.0%	66.7%	11	10	5	11	
11.63267593	45.5%	66.7%	10	10	5	12	
12.49374817	45.5%	73.3%	10	11	4	12	
12.60732604	45.5%	80.0%	10	12	3	12	
13.50273042	40.9%	80.0%	9	12	3	13	
13.82143605	40.9%	86.7%	9	13	2	13	
16.7254242	36.4%	86.7%	8	13	2	14	
17.41424302	31.8%	86.7%	7	13	2	15	
18.06049443	27.3%	86.7%	6	13	2	16	
18.20894302	22.7%	86.7%	5	13	2	17	
23.27328015	18.2%	86.7%	4	13	2	18	
24.08280508	13.6%	86.7%	3	13	2	19	
25.98483956	13.6%	93.3%	3	14	1	19	
26.57746175	9.1%	93.3%	2	14	1	20	
28.83048001	4.5%	93.3%	1	14	1	21	
47.62329377	4.5%	100.0%	1	15	0	21	
166.8780076	0.0%	100.0%	0	15	0	22	

FIGURE 2B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M3388_17 by SAMP_GRP

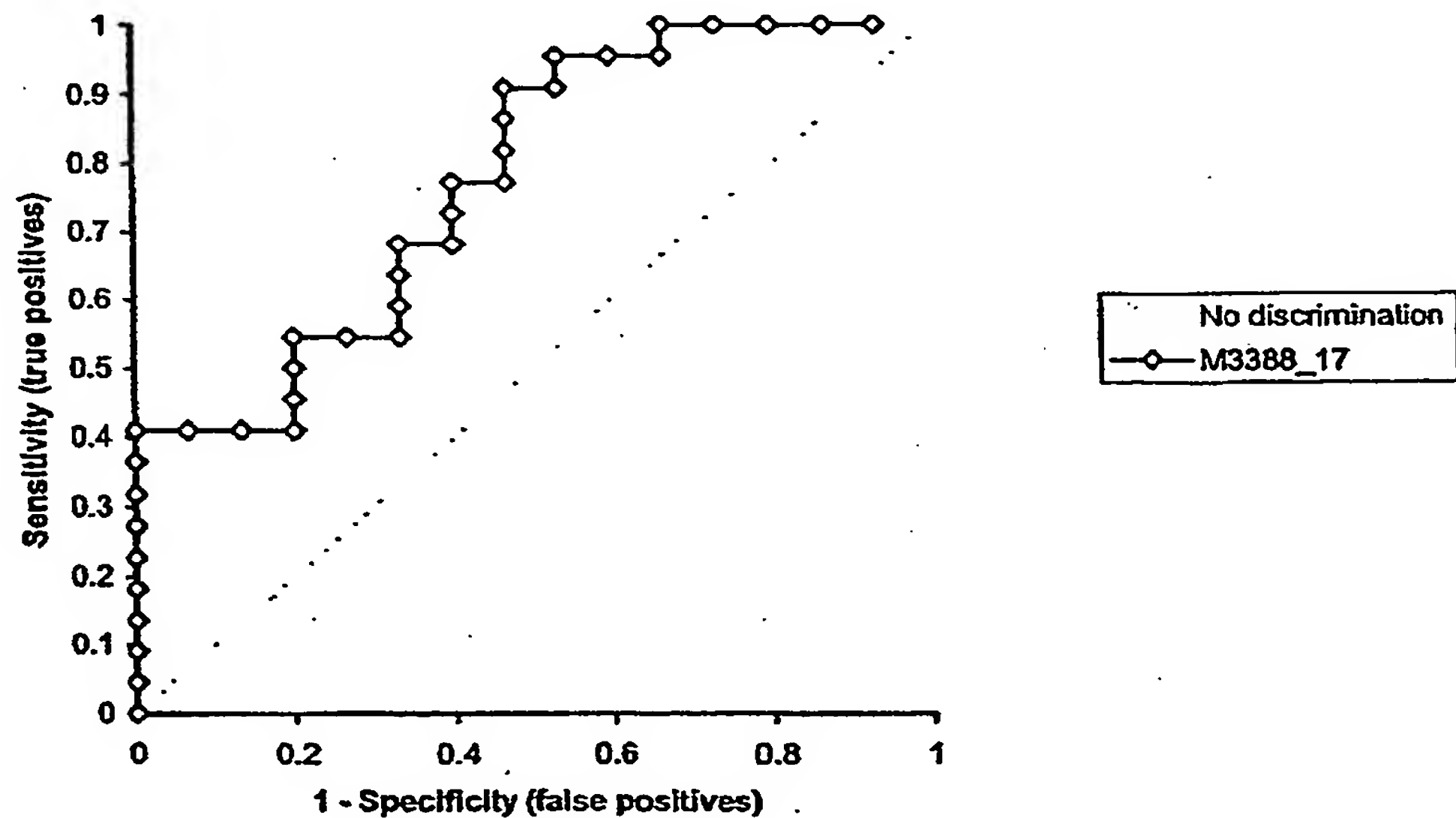
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M3388_17	0.773	0.0782	0.0002	0.620 to 0.926	have higher values



M3388_17 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
6.069828529	100.0%	6.7%	22	1	14	0

FIGURE 3A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M3388_17 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

7.207024304	100.0%	13.3%	22	2	13	0
9.922083432	100.0%	20.0%	22	3	12	0
10.17708081	100.0%	26.7%	22	4	11	0
10.56576285	100.0%	33.3%	22	5	10	0
10.59455925	95.5%	33.3%	21	5	10	1
10.91545247	95.5%	40.0%	21	6	9	1
12.29222011	95.5%	46.7%	21	7	8	1
13.37211543	90.9%	46.7%	20	7	8	2
13.55951694	90.9%	53.3%	20	8	7	2
13.91148758	86.4%	53.3%	19	8	7	3
15.27682835	81.8%	53.3%	18	8	7	4
17.64519175	77.3%	53.3%	17	8	7	5
19.34493728	77.3%	60.0%	17	9	6	5
21.08732753	72.7%	60.0%	16	9	6	6
22.76287936	68.2%	60.0%	15	9	6	7
25.28009079	68.2%	66.7%	15	10	5	7
28.47442488	63.6%	66.7%	14	10	5	8
29.29347057	59.1%	66.7%	13	10	5	9
32.64837117	54.5%	66.7%	12	10	5	10
33.79327766	54.5%	73.3%	12	11	4	10
34.64644181	54.5%	80.0%	12	12	3	10
35.2582956	50.0%	80.0%	11	12	3	11
43.35388576	45.5%	80.0%	10	12	3	12
44.33466793	40.9%	80.0%	9	12	3	13
57.15728342	40.9%	86.7%	9	13	2	13
57.34024544	40.9%	93.3%	9	14	1	13
58.57318233	40.9%	100.0%	9	15	0	13
67.95461705	36.4%	100.0%	8	15	0	14
73.51997985	31.8%	100.0%	7	15	0	15
81.8346206	27.3%	100.0%	6	15	0	16
84.87048686	22.7%	100.0%	5	15	0	17
95.23399501	18.2%	100.0%	4	15	0	18
111.3451323	13.6%	100.0%	3	15	0	19
135.2673113	9.1%	100.0%	2	15	0	20
163.0844717	4.5%	100.0%	1	15	0	21
244.1203177	0.0%	100.0%	0	15	0	22

FIGURE 3B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M3504_43 by SAMP_GRP

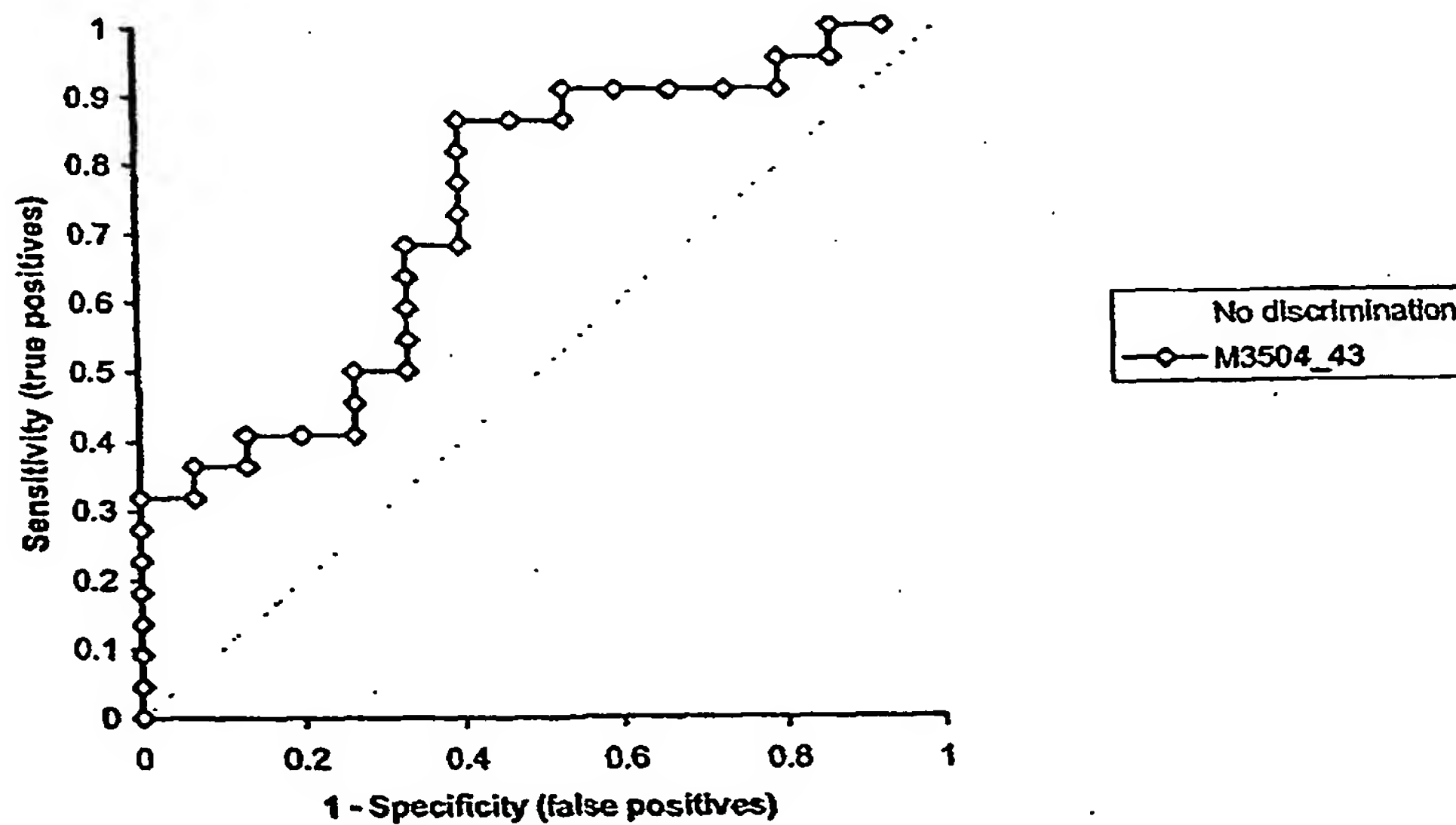
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M3504_43	0.733	0.0845	0.0029	0.568 to 0.899	have higher values



M3504_43 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
2.065567969	100.0%	6.7%	22	1	14	0

FIGURE 4A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M3504_43 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

4.147177377	100.0%	13.3%	22	2	13	0
4.346483678	95.5%	13.3%	21	2	13	1
5.179027946	95.5%	20.0%	21	3	12	1
6.233060653	90.9%	20.0%	20	3	12	2
6.38602063	90.9%	26.7%	20	4	11	2
6.501021458	90.9%	33.3%	20	5	10	2
6.546230005	90.9%	40.0%	20	6	9	2
6.937741113	90.9%	46.7%	20	7	8	2
7.284313736	86.4%	46.7%	19	7	8	3
7.518206292	86.4%	53.3%	19	8	7	3
9.33476608	86.4%	60.0%	19	9	6	3
9.532246496	81.8%	60.0%	18	9	6	4
9.781221999	77.3%	60.0%	17	9	6	5
9.866035899	72.7%	60.0%	16	9	6	6
16.00820213	68.2%	60.0%	15	9	6	7
18.92475045	68.2%	66.7%	15	10	5	7
19.75003398	63.6%	66.7%	14	10	5	8
19.79855126	59.1%	66.7%	13	10	5	9
20.02273661	54.5%	66.7%	12	10	5	10
24.21285993	50.0%	66.7%	11	10	5	11
29.87738742	50.0%	73.3%	11	11	4	11
30.43190207	45.5%	73.3%	10	11	4	12
31.64180193	40.9%	73.3%	9	11	4	13
39.09458711	40.9%	80.0%	9	12	3	13
40.19759412	40.9%	86.7%	9	13	2	13
42.40377564	36.4%	86.7%	8	13	2	14
44.91866348	36.4%	93.3%	8	14	1	14
53.46082451	31.8%	93.3%	7	14	1	15
57.85160936	31.8%	100.0%	7	15	0	15
61.00249637	27.3%	100.0%	6	15	0	16
72.50725155	22.7%	100.0%	5	15	0	17
80.1429293	18.2%	100.0%	4	15	0	18
81.42966987	13.6%	100.0%	3	15	0	19
94.0633764	9.1%	100.0%	2	15	0	20
102.5370068	4.5%	100.0%	1	15	0	21
131.0417084	0.0%	100.0%	0	15	0	22

Figure 4B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M3752_32 by SAMP_GRP

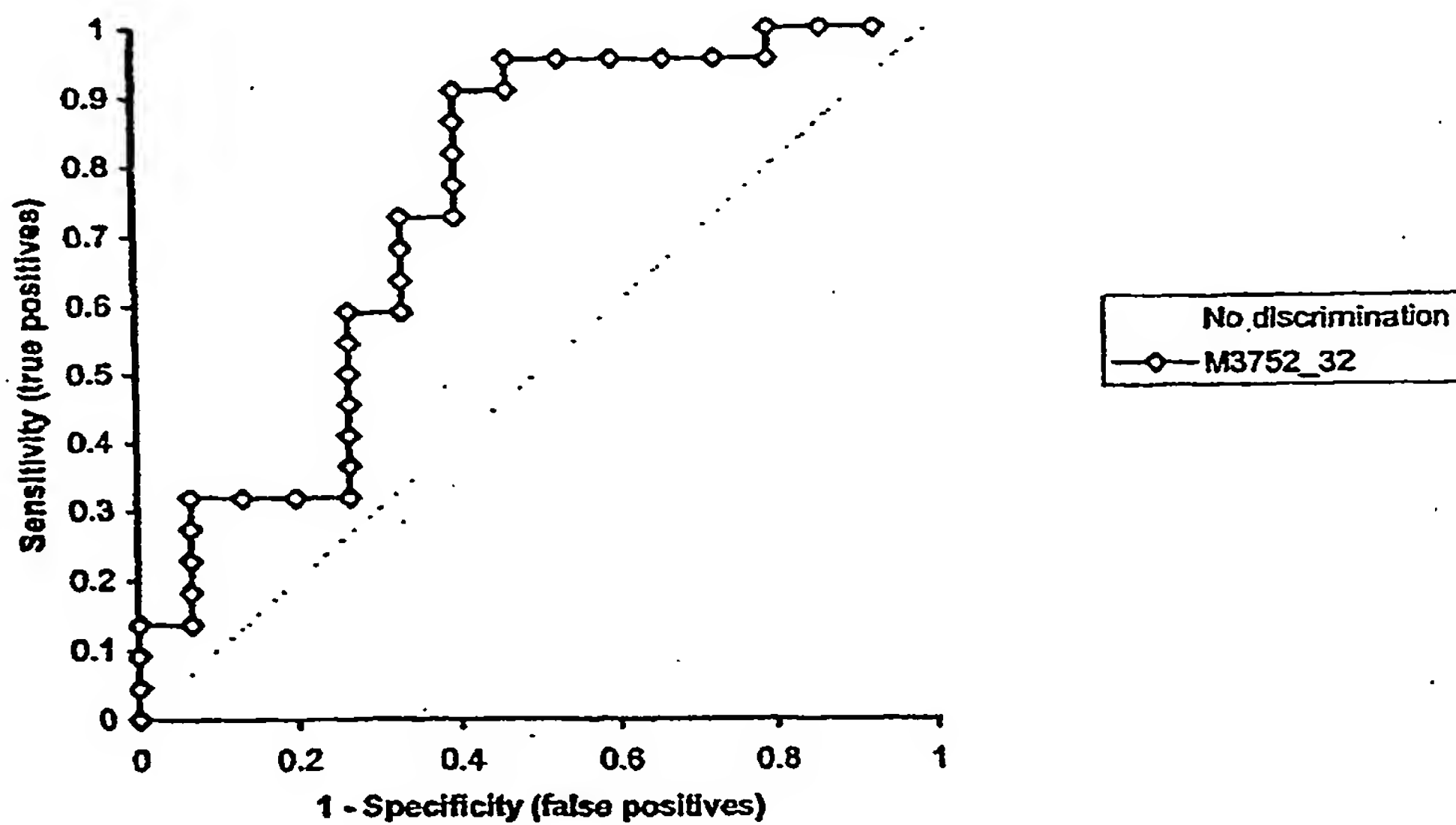
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M3752_32	0.739	0.0892	0.0036	0.565 to 0.914	have higher values



M3752_32 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.714340764	100.0%	6.7%	22	1	14	0

FIGURE 5 A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M3752_32 by SAMP_GRP

Performed by Benjamin Silverman

Date 14 August 2002

0.785473552	100.0%	13.3%	22	2	13	0
0.804835056	100.0%	20.0%	22	3	12	0
0.911664591	95.5%	20.0%	21	3	12	1
0.993546146	95.5%	26.7%	21	4	11	1
1.284810251	95.5%	33.3%	21	5	10	1
1.899316275	95.5%	40.0%	21	6	9	1
2.13389516	95.5%	46.7%	21	7	8	1
2.135426092	95.5%	53.3%	21	8	7	1
2.248975521	90.9%	53.3%	20	8	7	2
2.255384199	90.9%	60.0%	20	9	6	2
2.268580024	86.4%	60.0%	19	9	6	3
2.457235214	81.8%	60.0%	18	9	6	4
2.717744608	77.3%	60.0%	17	9	6	5
2.742493088	72.7%	60.0%	16	9	6	6
3.681569815	72.7%	66.7%	16	10	5	6
3.760595586	68.2%	66.7%	15	10	5	7
3.921438126	63.6%	66.7%	14	10	5	8
3.923444827	59.1%	66.7%	13	10	5	9
5.041232984	59.1%	73.3%	13	11	4	9
6.358798622	54.5%	73.3%	12	11	4	10
7.002814369	50.0%	73.3%	11	11	4	11
9.580198204	45.5%	73.3%	10	11	4	12
9.886882747	40.9%	73.3%	9	11	4	13
9.974385279	36.4%	73.3%	8	11	4	14
10.91867031	31.8%	73.3%	7	11	4	15
12.63788422	31.8%	80.0%	7	12	3	15
12.76021924	31.8%	86.7%	7	13	2	15
12.8746397	31.8%	93.3%	7	14	1	15
14.37204906	27.3%	93.3%	6	14	1	16
18.58403843	22.7%	93.3%	5	14	1	17
19.32278085	18.2%	93.3%	4	14	1	18
32.53093819	13.6%	93.3%	3	14	1	19
40.25804091	13.6%	100.0%	3	15	0	19
41.91052271	9.1%	100.0%	2	15	0	20
48.69019397	4.5%	100.0%	1	15	0	21
49.70161731	0.0%	100.0%	0	15	0	22

Figure 5e

10/530017

Test Receiver Operator Characteristic (ROC) curves

M4101_08 by SAMP_GRP

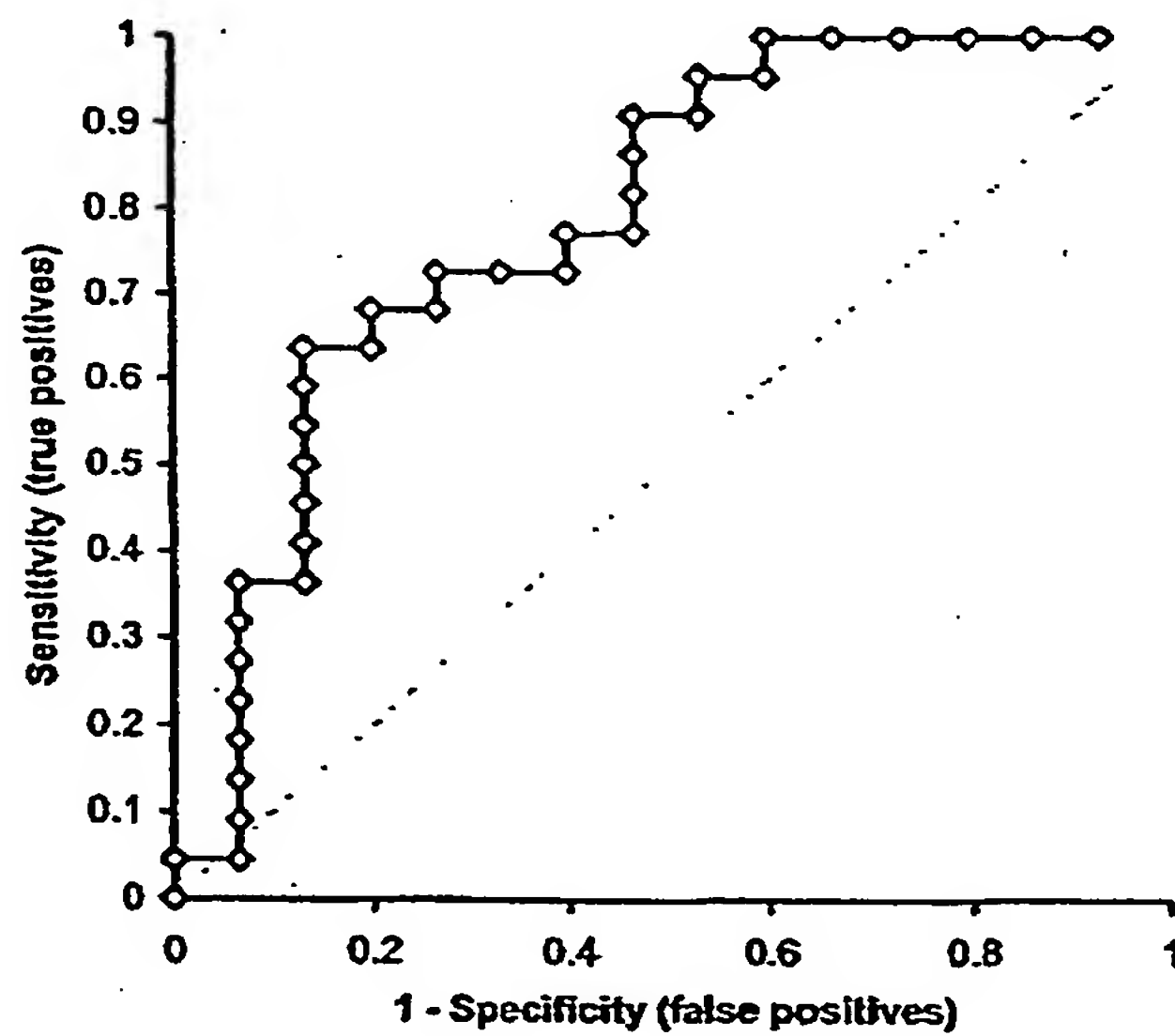
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M4101_08	0.788	0.0806	0.0002	0.630 to 0.946	have higher values



M4101_08 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.791227317	100.0%	6.7%	22	1	14	0

FIGURE 6A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M4101_08 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

1.777024145	100.0%	13.3%	22	2	13	0
1.864611445	100.0%	20.0%	22	3	12	0
2.229038148	100.0%	26.7%	22	4	11	0
2.42141698	100.0%	33.3%	22	5	10	0
2.565874221	100.0%	40.0%	22	6	9	0
2.702019221	95.5%	40.0%	21	6	9	1
2.843449311	95.5%	46.7%	21	7	8	1
2.982981073	90.9%	46.7%	20	7	8	2
3.090587735	90.9%	53.3%	20	8	7	2
3.241431653	86.4%	53.3%	19	8	7	3
3.60744697	81.8%	53.3%	18	8	7	4
4.562443603	77.3%	53.3%	17	8	7	5
4.903502945	77.3%	60.0%	17	9	6	5
5.177222365	72.7%	60.0%	16	9	6	6
5.181713211	72.7%	66.7%	16	10	5	6
5.857837737	72.7%	73.3%	16	11	4	6
6.977510421	68.2%	73.3%	15	11	4	7
7.386528126	68.2%	80.0%	15	12	3	7
8.779791432	63.6%	80.0%	14	12	3	8
9.459555394	63.6%	86.7%	14	13	2	8
10.7072921	59.1%	86.7%	13	13	2	9
12.08088057	54.5%	86.7%	12	13	2	10
14.15204918	50.0%	86.7%	11	13	2	11
16.11396822	45.5%	86.7%	10	13	2	12
17.28550508	40.9%	86.7%	9	13	2	13
17.80691034	36.4%	86.7%	8	13	2	14
18.43405031	36.4%	93.3%	8	14	1	14
18.47433197	31.8%	93.3%	7	14	1	15
22.34250211	27.3%	93.3%	6	14	1	16
27.29265602	22.7%	93.3%	5	14	1	17
28.67121222	18.2%	93.3%	4	14	1	18
29.03664973	13.6%	93.3%	3	14	1	19
36.20675533	9.1%	93.3%	2	14	1	20
38.54127644	4.5%	93.3%	1	14	1	21
43.59268294	4.5%	100.0%	1	15	0	21
144.7568822	0.0%	100.0%	0	15	0	22

Figure 6B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M4740_77 by SAMP_GRP

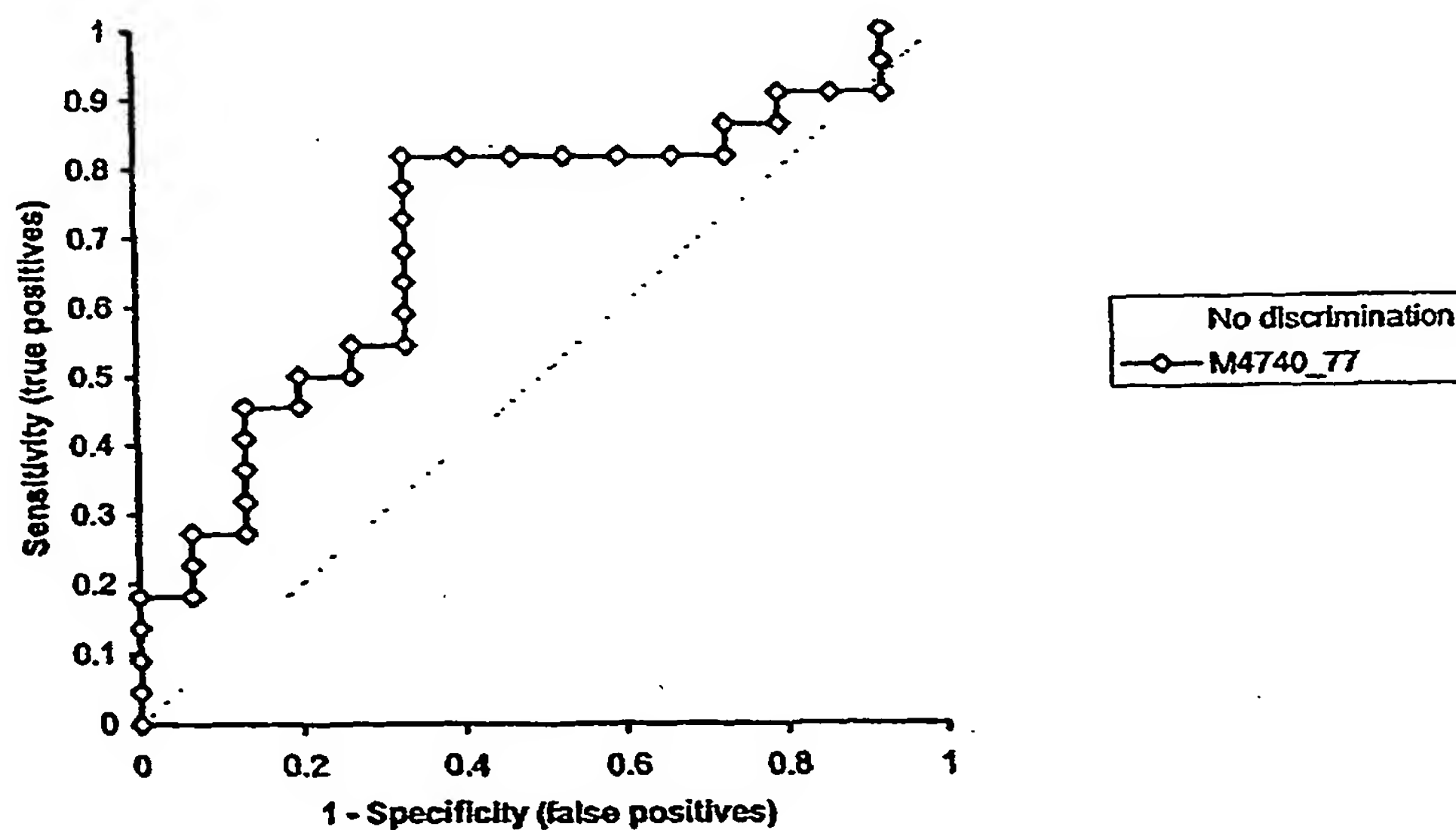
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M4740_77	0.703	0.0885	0.0109	0.530 to 0.877	have lower values



M4740_77 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
1.782471733	0.0%	100.0%	0	15	0	22

FIGURE 7A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M4740_77 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

3.46751317	4.5%	100.0%	1	15	0	21
3.703141299	9.1%	100.0%	2	15	0	20
3.822882864	13.6%	100.0%	3	15	0	19
4.213531318	18.2%	100.0%	4	15	0	18
5.861586364	18.2%	93.3%	4	14	1	18
6.537592438	22.7%	93.3%	5	14	1	17
6.544283701	27.3%	93.3%	6	14	1	16
6.937836678	27.3%	86.7%	6	13	2	16
7.396949195	31.8%	86.7%	7	13	2	15
7.581156967	36.4%	86.7%	8	13	2	14
7.622572721	40.9%	86.7%	9	13	2	13
7.996831339	45.5%	86.7%	10	13	2	12
8.128229641	45.5%	80.0%	10	12	3	12
8.555890869	50.0%	80.0%	11	12	3	11
9.035229021	50.0%	73.3%	11	11	4	11
10.52413657	54.5%	73.3%	12	11	4	10
10.76436616	54.5%	66.7%	12	10	5	10
12.18334212	59.1%	66.7%	13	10	5	9
13.34623356	63.6%	66.7%	14	10	5	8
14.48398405	68.2%	66.7%	15	10	5	7
14.76122649	72.7%	66.7%	16	10	5	6
19.24801943	77.3%	66.7%	17	10	5	5
21.76687704	81.8%	66.7%	18	10	5	4
22.89440092	81.8%	60.0%	18	9	6	4
23.72554368	81.8%	53.3%	18	8	7	4
26.31956137	81.8%	46.7%	18	7	8	4
27.15591038	81.8%	40.0%	18	6	9	4
27.27126289	81.8%	33.3%	18	5	10	4
30.41172213	81.8%	26.7%	18	4	11	4
31.68687668	86.4%	26.7%	19	4	11	3
38.40570882	86.4%	20.0%	19	3	12	3
43.33855943	90.9%	20.0%	20	3	12	2
46.45290679	90.9%	13.3%	20	2	13	2
55.29038899	90.9%	6.7%	20	1	14	2
121.5530544	95.5%	6.7%	21	1	14	1
156.6316898	100.0%	6.7%	22	1	14	0

Figure 1B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M4774_79 by SAMP_GRP

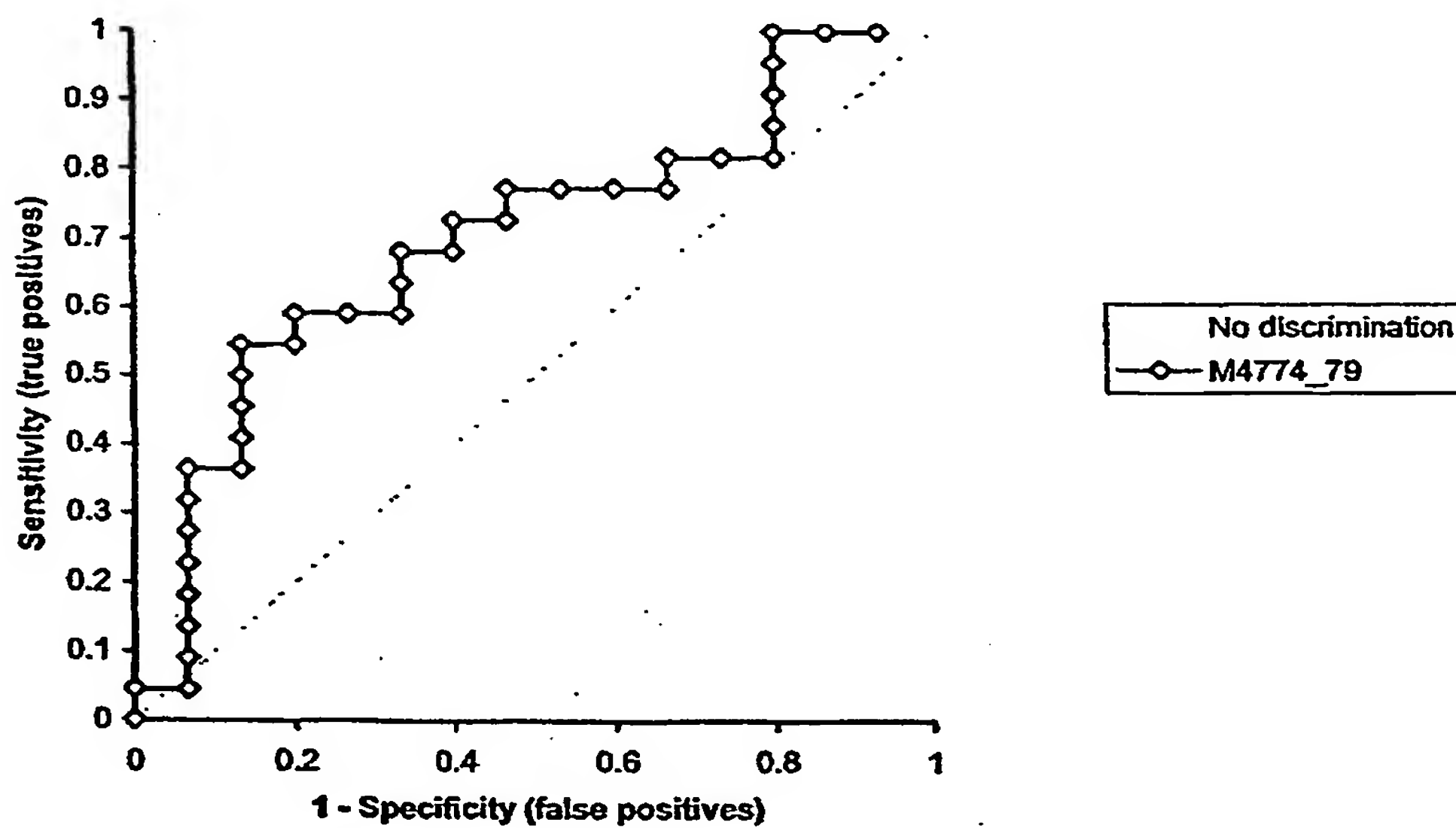
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M4774_79	0.700	0.0888	0.0121	0.526 to 0.874	have lower values



M4774_79 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
1.628203756	0.0%	100.0%	0	15	0	22

FIGURE 8 A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M4774_79 by SAMP_GRP						
Performed by	Benjamin Silverman				Date	14 August 2002
1.827155531	4.5%	100.0%	1	15	0	21
2.770794786	4.5%	93.3%	1	14	1	21
3.279957997	9.1%	93.3%	2	14	1	20
3.627411737	13.6%	93.3%	3	14	1	19
3.70851809	18.2%	93.3%	4	14	1	18
3.72785582	22.7%	93.3%	5	14	1	17
4.32411472	27.3%	93.3%	6	14	1	16
4.598018454	31.8%	93.3%	7	14	1	15
5.008617117	36.4%	93.3%	8	14	1	14
5.399934701	36.4%	86.7%	8	13	2	14
5.487403027	40.9%	86.7%	9	13	2	13
6.267387571	45.5%	86.7%	10	13	2	12
6.538557684	50.0%	86.7%	11	13	2	11
6.773605908	54.5%	86.7%	12	13	2	10
6.838166538	54.5%	80.0%	12	12	3	10
7.621667577	59.1%	80.0%	13	12	3	9
7.659773747	59.1%	73.3%	13	11	4	9
7.770546548	59.1%	66.7%	13	10	5	9
10.02116644	63.6%	66.7%	14	10	5	8
10.45039825	68.2%	66.7%	15	10	5	7
11.02281238	68.2%	60.0%	15	9	6	7
11.03992967	72.7%	60.0%	16	9	6	6
11.62998313	72.7%	53.3%	16	8	7	6
11.85826753	77.3%	53.3%	17	8	7	5
12.63500235	77.3%	46.7%	17	7	8	5
12.78702516	77.3%	40.0%	17	6	9	5
13.37119084	77.3%	33.3%	17	5	10	5
15.17345082	81.8%	33.3%	18	5	10	4
15.41808818	81.8%	26.7%	18	4	11	4
16.5708956	81.8%	20.0%	18	3	12	4
18.03957309	86.4%	20.0%	19	3	12	3
20.67017237	90.9%	20.0%	20	3	12	2
21.15863159	95.5%	20.0%	21	3	12	1
21.773702	100.0%	20.0%	22	3	12	0
23.69309466	100.0%	13.3%	22	2	13	0
37.43292643	100.0%	6.7%	22	1	14	0

Figure 8B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M4991_74 by SAMP_GRP

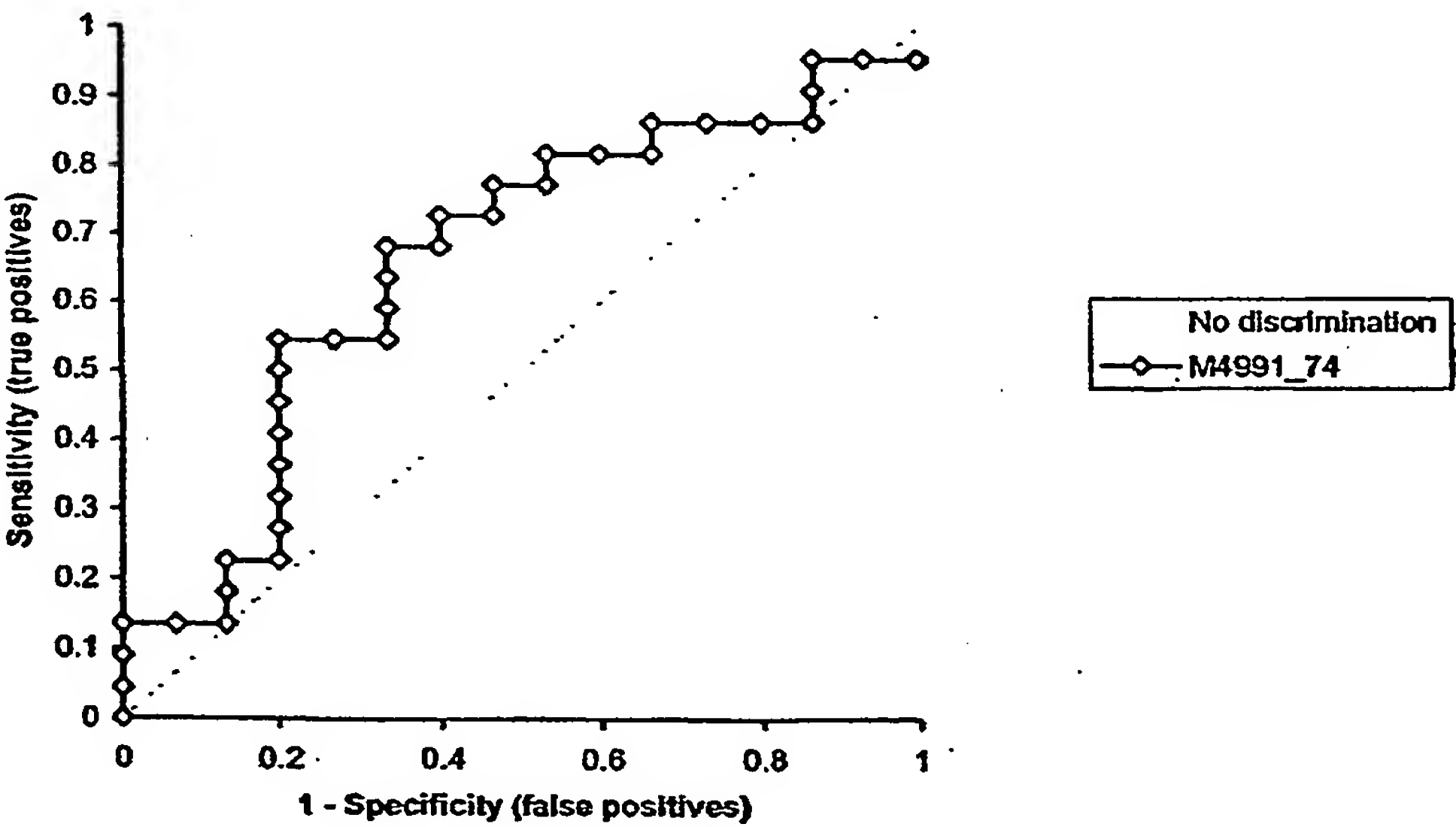
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M4991_74	0.661	0.0937	0.0433	0.477 to 0.844	have lower values



M4991_74 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.196979745	0.0%	100.0%	0	15	0	22

FIGURE 9A

10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M4991_74 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
0.996208662	4.5%	100.0%	1	15	0	21	
1.730046597	9.1%	100.0%	2	15	0	20	
1.952680607	13.6%	100.0%	3	15	0	19	
1.979642763	13.6%	93.3%	3	14	1	19	
2.211947172	13.6%	86.7%	3	13	2	19	
2.607265204	18.2%	86.7%	4	13	2	18	
2.805527099	22.7%	86.7%	5	13	2	17	
2.829625782	22.7%	80.0%	5	12	3	17	
3.649138621	27.3%	80.0%	6	12	3	16	
3.687307965	31.8%	80.0%	7	12	3	15	
4.267439352	36.4%	80.0%	8	12	3	14	
4.39521336	40.9%	80.0%	9	12	3	13	
4.427187555	45.5%	80.0%	10	12	3	12	
4.885644148	50.0%	80.0%	11	12	3	11	
5.450333293	54.5%	80.0%	12	12	3	10	
5.787831795	54.5%	73.3%	12	11	4	10	
6.089175257	54.5%	66.7%	12	10	5	10	
6.361118832	59.1%	66.7%	13	10	5	9	
6.427173334	63.6%	66.7%	14	10	5	8	
6.863028781	68.2%	66.7%	15	10	5	7	
6.882342458	68.2%	60.0%	15	9	6	7	
7.411521486	72.7%	60.0%	16	9	6	6	
8.606578814	72.7%	53.3%	16	8	7	6	
9.297640803	77.3%	53.3%	17	8	7	5	
10.25714603	77.3%	46.7%	17	7	8	5	
11.967552	81.8%	46.7%	18	7	8	4	
13.12548723	81.8%	40.0%	18	6	9	4	
14.28048117	81.8%	33.3%	18	5	10	4	
16.55161704	86.4%	33.3%	19	5	10	3	
26.30451983	86.4%	26.7%	19	4	11	3	
28.08294583	86.4%	20.0%	19	3	12	3	
32.11852956	86.4%	13.3%	19	2	13	3	
34.21013343	90.9%	13.3%	20	2	13	2	
34.36097865	95.5%	13.3%	21	2	13	1	
35.89149782	95.5%	6.7%	21	1	14	1	
42.64837465	95.5%	0.0%	21	0	15	1	

Figure 9B

Test Receiver Operator Characteristic (ROC) curves

M5536_29 by SAMP_GRP

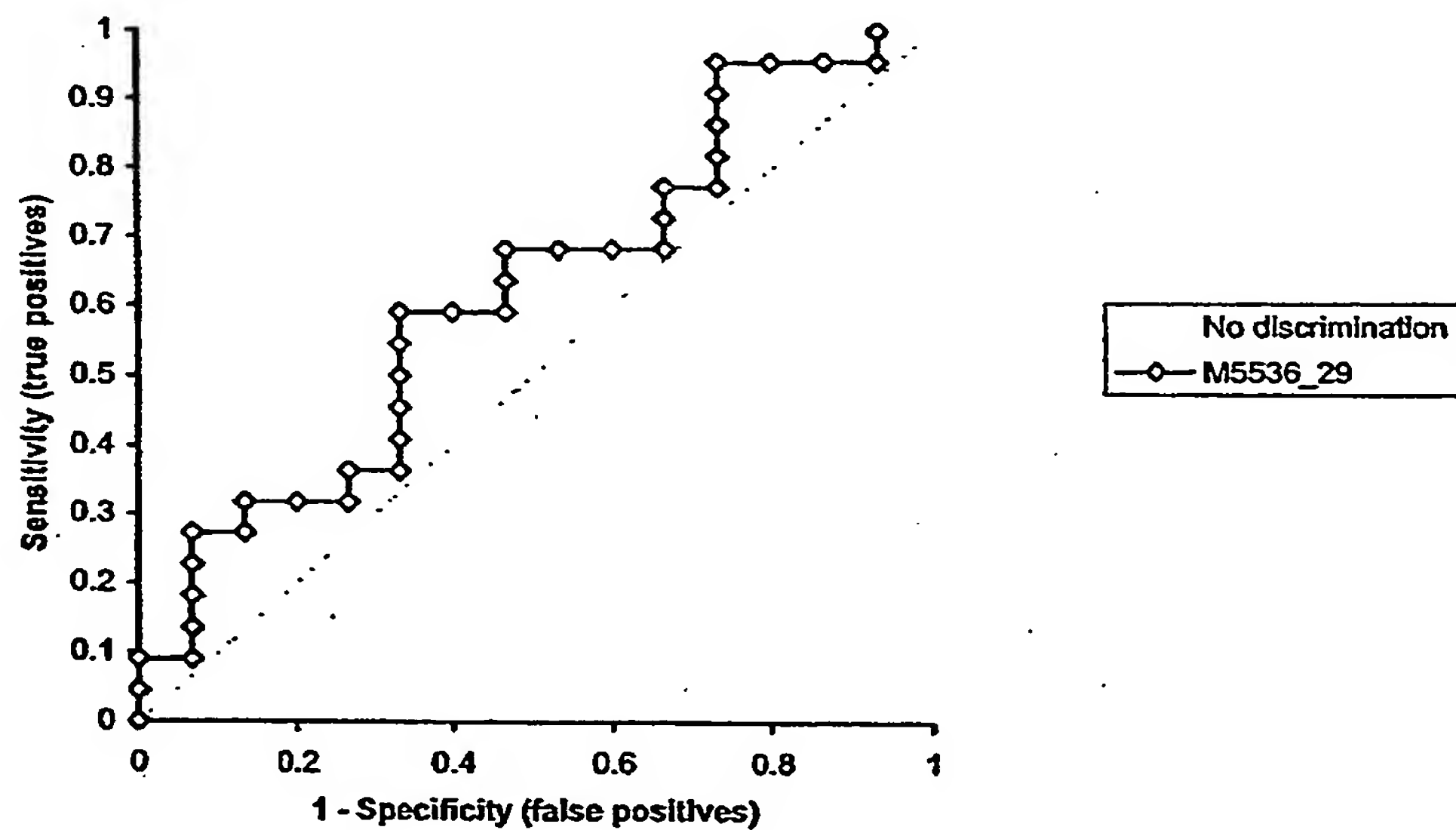
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M5536_29	0.615	0.0950	0.1129	0.429 to 0.801	! have higher values



M5536_29 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
2.476873773	100.0%	6.7%	22	1	14	0

FIGURE 10A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M5536_29 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

2.735239337	95.5%	6.7%	21	1	14	1
3.120351652	95.5%	13.3%	21	2	13	1
3.38479814	95.5%	20.0%	21	3	12	1
3.997539986	95.5%	26.7%	21	4	11	1
4.095493334	90.9%	26.7%	20	4	11	2
4.263146482	86.4%	26.7%	19	4	11	3
4.594284377	81.8%	26.7%	18	4	11	4
5.972410264	77.3%	26.7%	17	4	11	5
6.664831963	77.3%	33.3%	17	5	10	5
6.817705332	72.7%	33.3%	16	5	10	6
8.141308021	68.2%	33.3%	15	5	10	7
8.480803777	68.2%	40.0%	15	6	9	7
8.987766361	68.2%	46.7%	15	7	8	7
9.231911097	68.2%	53.3%	15	8	7	7
9.552062697	63.6%	53.3%	14	8	7	8
10.55353177	59.1%	53.3%	13	8	7	9
13.97374817	59.1%	60.0%	13	9	6	9
14.02278422	59.1%	66.7%	13	10	5	9
14.88280435	54.5%	66.7%	12	10	5	10
15.23628909	50.0%	66.7%	11	10	5	11
23.4978088	45.5%	66.7%	10	10	5	12
25.14900037	40.9%	66.7%	9	10	5	13
26.02066777	36.4%	66.7%	8	10	5	14
30.6345416	36.4%	73.3%	8	11	4	14
30.77622328	31.8%	73.3%	7	11	4	15
31.94867944	31.8%	80.0%	7	12	3	15
34.49611418	31.8%	86.7%	7	13	2	15
35.08171775	27.3%	86.7%	6	13	2	16
36.99180982	27.3%	93.3%	6	14	1	16
38.61874069	22.7%	93.3%	5	14	1	17
41.37427345	18.2%	93.3%	4	14	1	18
43.17627664	13.6%	93.3%	3	14	1	19
44.48204224	9.1%	93.3%	2	14	1	20
52.94519269	9.1%	100.0%	2	15	0	20
62.35890391	4.5%	100.0%	1	15	0	21
65.07263487	0.0%	100.0%	0	15	0	22

Figure 10f

Test Receiver Operator Characteristic (ROC) curves

M5632_34 by SAMP_GRP

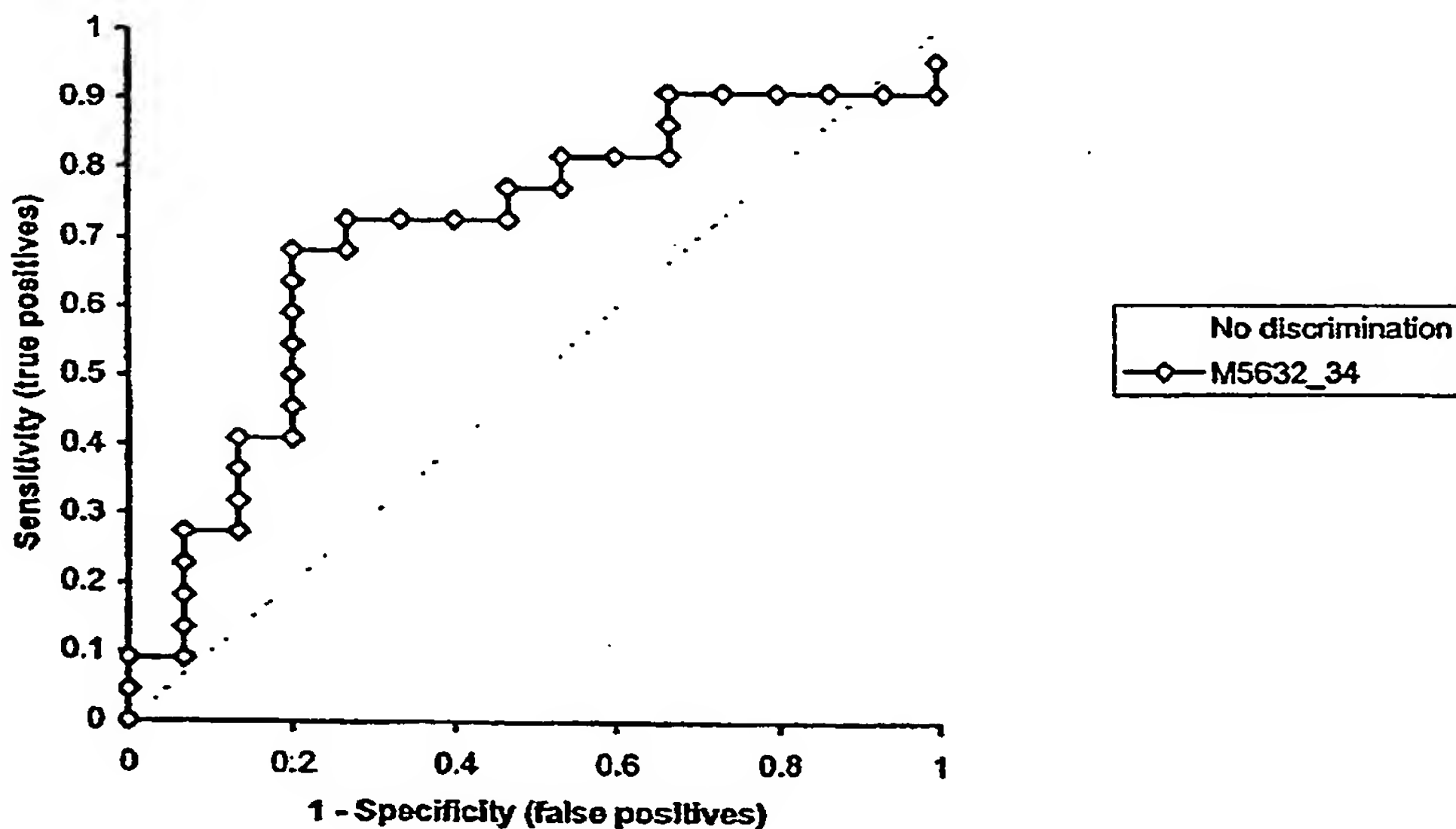
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M5632_34	0.706	0.0896	0.0107	0.530 to 0.882	have higher values



M5632_34 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.66241178	95.5%	0.0%	21	0	15	1

FIGURE 11A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M5632_34 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

-0.504040134	90.9%	0.0%	20	0	15	2
0.388898772	90.9%	6.7%	20	1	14	2
0.653349603	90.9%	13.3%	20	2	13	2
0.77842974	90.9%	20.0%	20	3	12	2
0.825697867	90.9%	26.7%	20	4	11	2
0.968687382	90.9%	33.3%	20	5	10	2
0.998569141	86.4%	33.3%	19	5	10	3
1.077108899	81.8%	33.3%	18	5	10	4
1.107048847	81.8%	40.0%	18	6	9	4
1.126856905	81.8%	46.7%	18	7	8	4
1.314607138	77.3%	46.7%	17	7	8	5
1.596204729	77.3%	53.3%	17	8	7	5
1.932708548	72.7%	53.3%	16	8	7	6
1.975900376	72.7%	60.0%	16	9	6	6
2.238214852	72.7%	66.7%	16	10	5	6
2.251560917	72.7%	73.3%	16	11	4	6
2.352154965	68.2%	73.3%	15	11	4	7
2.521548392	68.2%	80.0%	15	12	3	7
2.854528318	63.6%	80.0%	14	12	3	8
3.024417527	59.1%	80.0%	13	12	3	9
3.122910575	54.5%	80.0%	12	12	3	10
3.488196703	50.0%	80.0%	11	12	3	11
3.61290495	45.5%	80.0%	10	12	3	12
3.841931455	40.9%	80.0%	9	12	3	13
3.873274722	40.9%	86.7%	9	13	2	13
4.550969293	36.4%	86.7%	8	13	2	14
4.687454232	31.8%	86.7%	7	13	2	15
5.820357958	27.3%	86.7%	6	13	2	16
5.840106731	27.3%	93.3%	6	14	1	16
6.139408278	22.7%	93.3%	5	14	1	17
6.675787665	18.2%	93.3%	4	14	1	18
10.06276664	13.6%	93.3%	3	14	1	19
13.41667655	9.1%	93.3%	2	14	1	20
14.98079515	9.1%	100.0%	2	15	0	20
20.80876033	4.5%	100.0%	1	15	0	21
28.92874487	0.0%	100.0%	0	15	0	22

Figure 11B

23/99

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6083_96 by SAMP_GRP

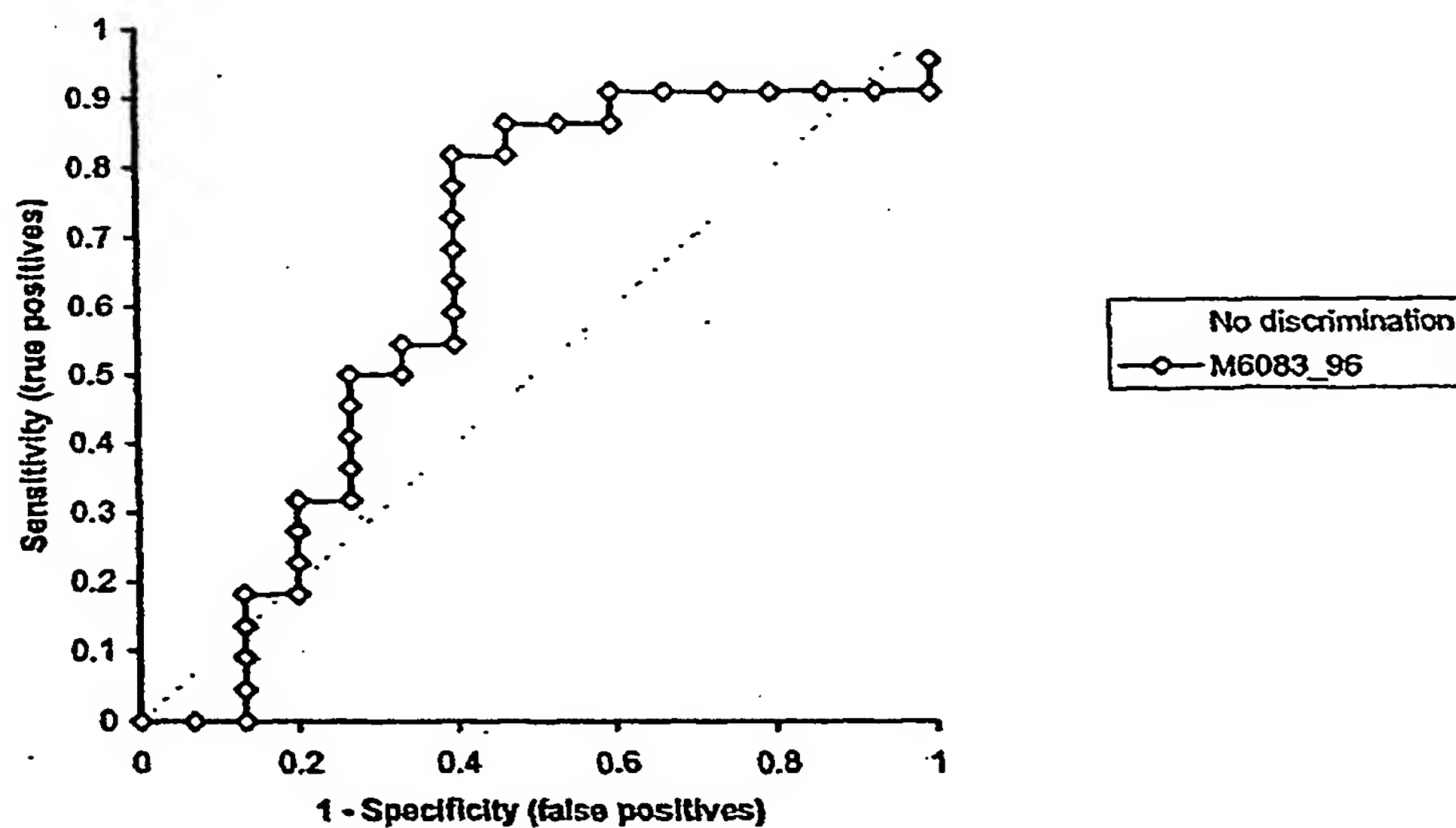
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M6083_96	0.636	0.1018	0.0903	0.437 to 0.836	have higher values



M6083_96 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-1.209303384	95.5%	0.0%	21	0	15	1

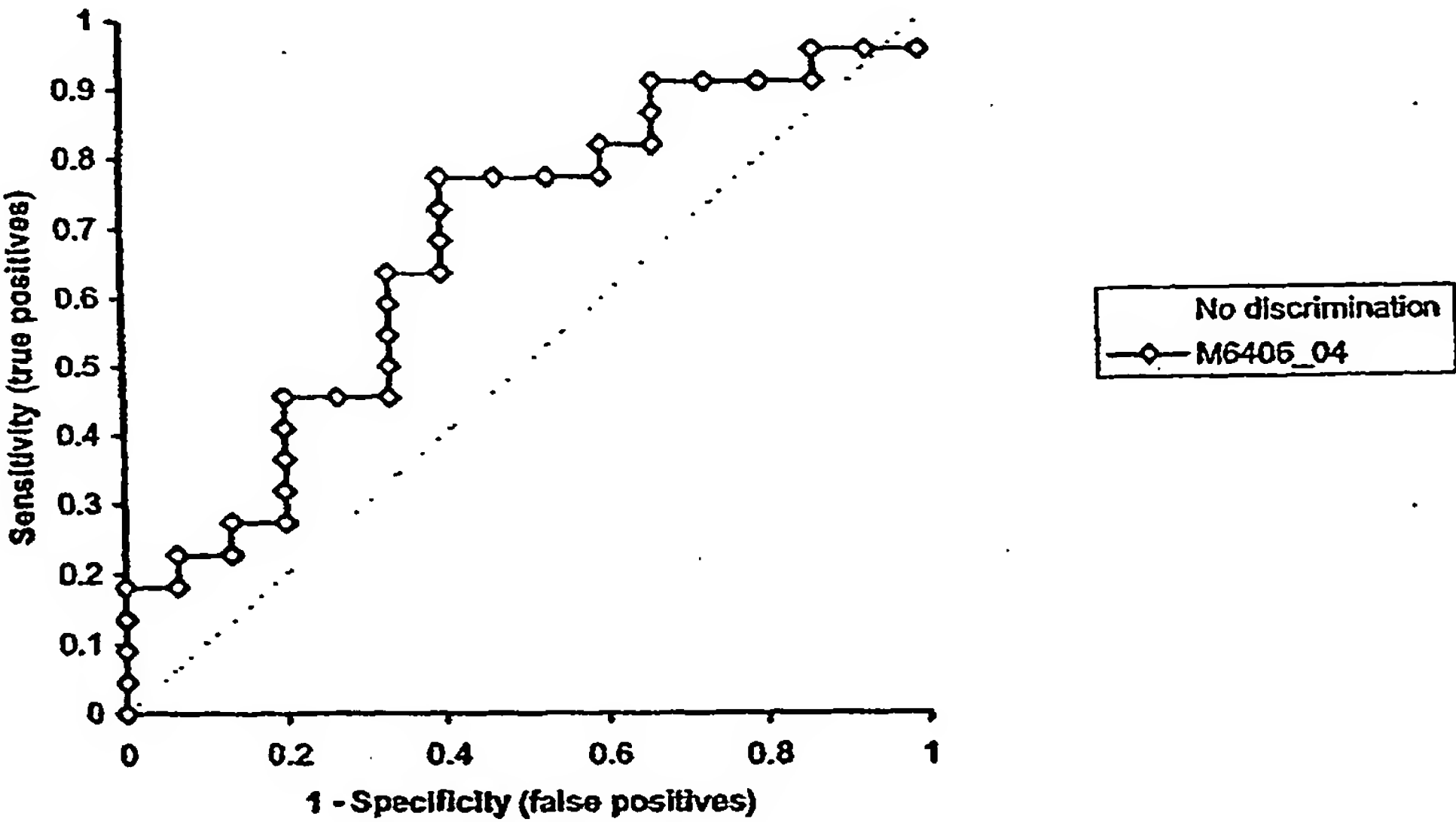
FIGURE 12A

10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M6083_96 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
-0.840532557	90.9%	0.0%	20	0	15	2	
0.051463134	90.9%	6.7%	20	1	14	2	
0.706431918	90.9%	13.3%	20	2	13	2	
1.124512015	90.9%	20.0%	20	3	12	2	
1.591362646	90.9%	26.7%	20	4	11	2	
1.683209049	90.9%	33.3%	20	5	10	2	
1.788481249	90.9%	40.0%	20	6	9	2	
2.481609046	86.4%	40.0%	19	6	9	3	
2.51886446	86.4%	46.7%	19	7	8	3	
2.55797428	86.4%	53.3%	19	8	7	3	
2.605058174	81.8%	53.3%	18	8	7	4	
2.885215545	81.8%	60.0%	18	9	6	4	
3.197459448	77.3%	60.0%	17	9	6	5	
3.365272297	72.7%	60.0%	16	9	6	6	
3.671798165	68.2%	60.0%	15	9	6	7	
3.90007016	63.6%	60.0%	14	9	6	8	
4.039270694	59.1%	60.0%	13	9	6	9	
4.436064311	54.5%	60.0%	12	9	6	10	
4.617136392	54.5%	66.7%	12	10	5	10	
5.115352999	50.0%	66.7%	11	10	5	11	
6.353216703	50.0%	73.3%	11	11	4	11	
6.4912197	45.5%	73.3%	10	11	4	12	
7.441252266	40.9%	73.3%	9	11	4	13	
8.792126385	36.4%	73.3%	8	11	4	14	
11.29691249	31.8%	73.3%	7	11	4	15	
13.30488137	31.8%	80.0%	7	12	3	15	
13.92938769	27.3%	80.0%	6	12	3	16	
15.8894186	22.7%	80.0%	5	12	3	17	
15.99529578	18.2%	80.0%	4	12	3	18	
17.73356817	18.2%	86.7%	4	13	2	18	
20.46026717	13.6%	86.7%	3	13	2	19	
21.31066896	9.1%	86.7%	2	13	2	20	
23.17512833	4.5%	86.7%	1	13	2	21	
29.15341734	0.0%	86.7%	0	13	2	22	
37.84621415	0.0%	93.3%	0	14	1	22	
43.82802395	0.0%	100.0%	0	15	0	22	

Figure 12B

Test	Receiver Operator Characteristic (ROC) curves				
	M6406_04 by SAMP_GRP				
Performed by	Benjamin Silverman			Date	14 August 2002
n	37				
SAMP_GRP	n				
0	15				
1	22				
Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M6406_04	0.667	0.0918	0.0348	0.487 to 0.847	have higher values



M6406_04 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.207686614	95.5%	0.0%	21	0	15	1

FIGURE 13A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6406_04 by SAMP_GRP

Performed by Benjamin Silverman

Date

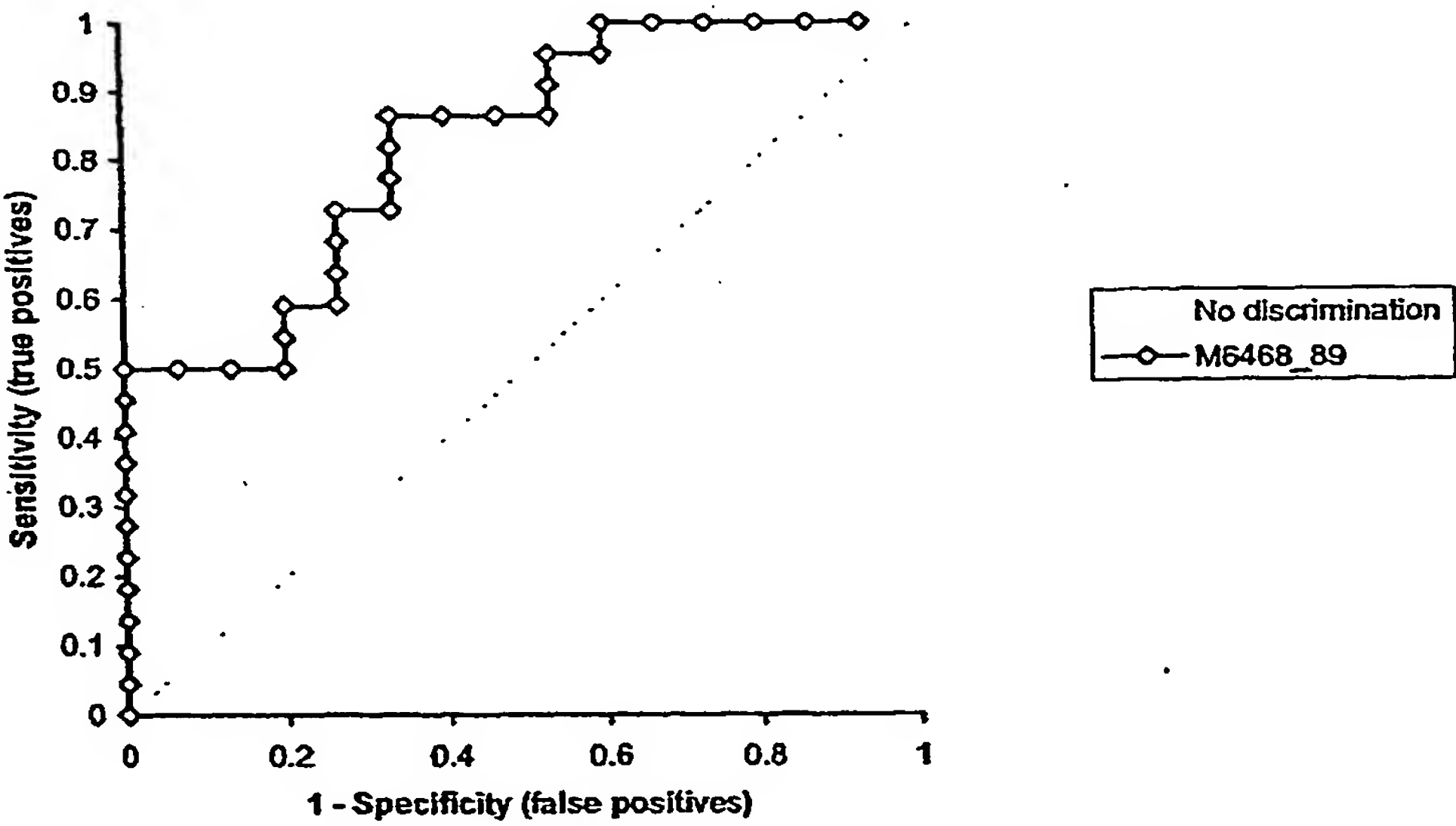
14 August 2002

0.923420696	95.5%	6.7%	21	1	14	1
1.234313198	95.5%	13.3%	21	2	13	1
1.494874412	90.9%	13.3%	20	2	13	2
1.625003803	90.9%	20.0%	20	3	12	2
1.783038312	90.9%	26.7%	20	4	11	2
2.266399527	90.9%	33.3%	20	5	10	2
2.694941007	86.4%	33.3%	19	5	10	3
2.886712812	81.8%	33.3%	18	5	10	4
3.057125428	81.8%	40.0%	18	6	9	4
3.078671506	77.3%	40.0%	17	6	9	5
3.136138812	77.3%	46.7%	17	7	8	5
3.37282052	77.3%	53.3%	17	8	7	5
3.388309735	77.3%	60.0%	17	9	6	5
3.470325094	72.7%	60.0%	16	9	6	6
3.510408777	68.2%	60.0%	15	9	6	7
3.702964632	63.6%	60.0%	14	9	6	8
4.134558043	63.6%	66.7%	14	10	5	8
4.418528395	59.1%	66.7%	13	10	5	9
4.626183014	54.5%	66.7%	12	10	5	10
6.199219603	50.0%	66.7%	11	10	5	11
6.643154701	45.5%	66.7%	10	10	5	12
6.801405828	45.5%	73.3%	10	11	4	12
8.678907807	45.5%	80.0%	10	12	3	12
8.928059882	40.9%	80.0%	9	12	3	13
9.547872707	36.4%	80.0%	8	12	3	14
9.740209204	31.8%	80.0%	7	12	3	15
11.50928318	27.3%	80.0%	6	12	3	16
11.64666186	27.3%	86.7%	6	13	2	16
16.68248737	22.7%	86.7%	5	13	2	17
18.36670762	22.7%	93.3%	5	14	1	17
20.99571285	18.2%	93.3%	4	14	1	18
26.53742371	18.2%	100.0%	4	15	0	18
28.29947448	13.6%	100.0%	3	15	0	19
48.99553133	9.1%	100.0%	2	15	0	20
75.56336781	4.5%	100.0%	1	15	0	21
727.9817302	0.0%	100.0%	0	15	0	22

Figure 13B

10/530017

Test	Receiver Operator Characteristic (ROC) curves				
	M6468_89 by SAMP_GRP				
Performed by	Benjamin Silverman			Date	14 August 2002
n	37				
SAMP_GRP	n				
0	15				
1	22				
Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M6468_89	0.824	0.0679	<0.0001	0.691 to 0.957	have higher values



M6468_89 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.091826597	100.0%	6.7%	22	1	14	0

FIGURE 14 A

Test		Receiver Operator Characteristic (ROC) curves					
		M6468_89 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
0.835563258	100.0%	13.3%	22	2	13	0	
0.93219296	100.0%	20.0%	22	3	12	0	
1.074969489	100.0%	26.7%	22	4	11	0	
1.133243299	100.0%	33.3%	22	5	10	0	
1.518080502	100.0%	40.0%	22	6	9	0	
1.825078341	95.5%	40.0%	21	6	9	1	
1.918368848	95.5%	46.7%	21	7	8	1	
2.230152821	90.9%	46.7%	20	7	8	2	
2.375750164	86.4%	46.7%	19	7	8	3	
2.641109179	86.4%	53.3%	19	8	7	3	
3.094798916	86.4%	60.0%	19	9	6	3	
3.811488644	86.4%	66.7%	19	10	5	3	
4.500641184	81.8%	66.7%	18	10	5	4	
4.783912451	77.3%	66.7%	17	10	5	5	
4.794961294	72.7%	66.7%	16	10	5	6	
4.934982572	72.7%	73.3%	16	11	4	6	
5.034285335	68.2%	73.3%	15	11	4	7	
5.077822723	63.6%	73.3%	14	11	4	8	
5.983764713	59.1%	73.3%	13	11	4	9	
7.45907997	59.1%	80.0%	13	12	3	9	
7.491795742	54.5%	80.0%	12	12	3	10	
8.139771712	50.0%	80.0%	11	12	3	11	
8.555474896	50.0%	86.7%	11	13	2	11	
9.467190147	50.0%	93.3%	11	14	1	11	
9.887556218	50.0%	100.0%	11	15	0	11	
12.78727407	45.5%	100.0%	10	15	0	12	
14.99572961	40.9%	100.0%	9	15	0	13	
15.17972908	36.4%	100.0%	8	15	0	14	
16.21889052	31.8%	100.0%	7	15	0	15	
16.78423313	27.3%	100.0%	6	15	0	16	
17.96332953	22.7%	100.0%	5	15	0	17	
26.72227163	18.2%	100.0%	4	15	0	18	
31.20758175	13.6%	100.0%	3	15	0	19	
57.91100778	9.1%	100.0%	2	15	0	20	
107.7567031	4.5%	100.0%	1	15	0	21	
426.7508851	0.0%	100.0%	0	15	0	22	

Figure 14B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6602_76 by SAMP_GRP

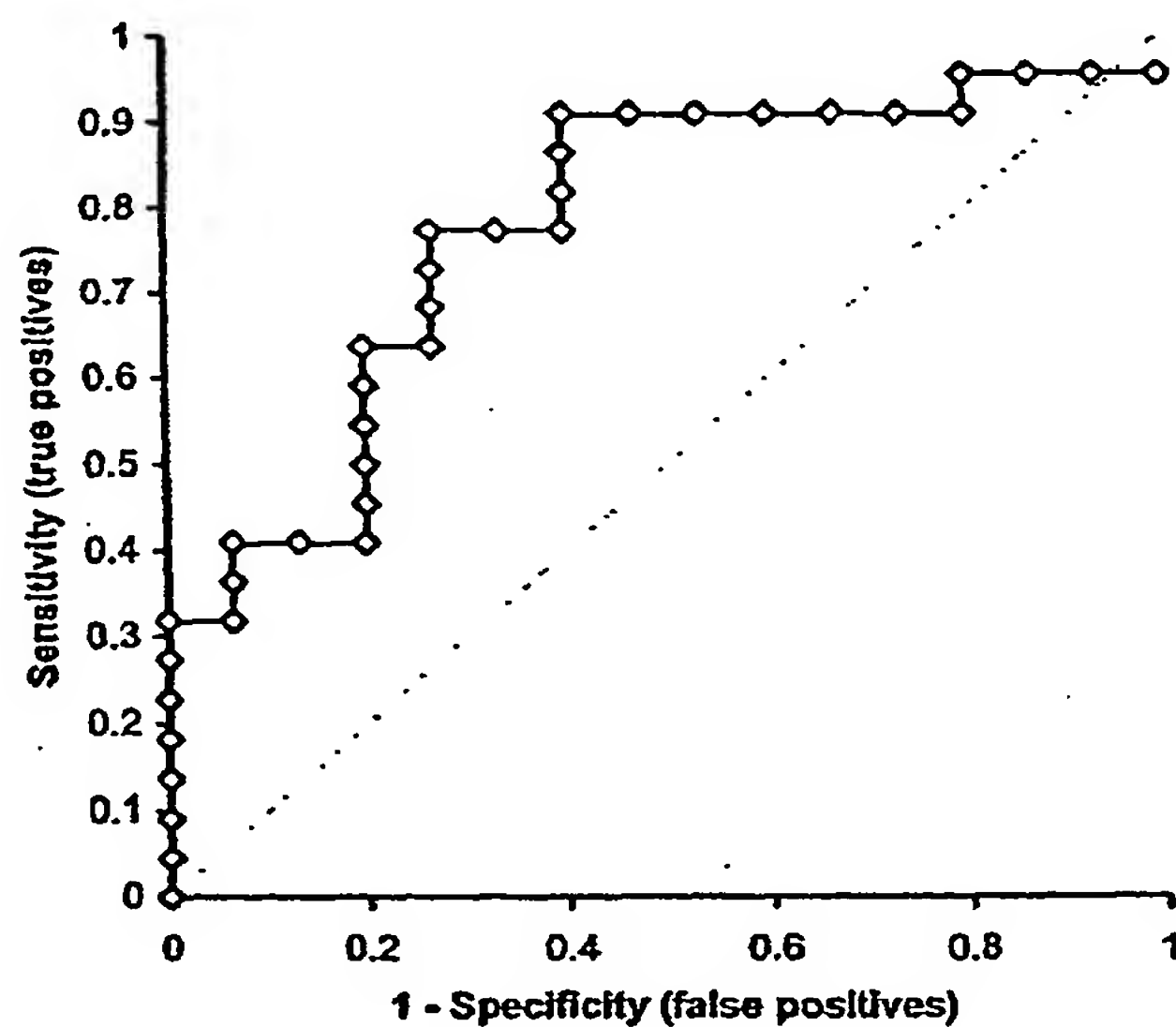
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M6602_76	0.776	0.0792	0.0002	0.621 to 0.931	have higher values



M6602_76 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.820083574	95.5%	0.0%	21	0	15	1

FIGURE 15A

Test Receiver Operator Characteristic (ROC) curves

M6802_76 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

1.145943829	95.5%	6.7%	21	1	14	1
1.271587635	95.5%	13.3%	21	2	13	1
1.319340027	95.5%	20.0%	21	3	12	1
1.413613659	90.9%	20.0%	20	3	12	2
1.430941938	90.9%	26.7%	20	4	11	2
1.499030655	90.9%	33.3%	20	5	10	2
2.982147717	90.9%	40.0%	20	6	9	2
3.310303594	90.9%	46.7%	20	7	8	2
3.583311101	90.9%	53.3%	20	8	7	2
3.910654764	90.9%	60.0%	20	9	6	2
4.106539181	86.4%	60.0%	19	9	6	3
4.146892007	81.8%	60.0%	18	9	6	4
4.504318001	77.3%	60.0%	17	9	6	5
5.125117622	77.3%	66.7%	17	10	5	5
6.118715467	77.3%	73.3%	17	11	4	5
6.530734839	72.7%	73.3%	16	11	4	6
8.485693053	68.2%	73.3%	15	11	4	7
8.701819799	63.6%	73.3%	14	11	4	8
8.938297048	63.6%	80.0%	14	12	3	8
11.54358186	59.1%	80.0%	13	12	3	9
11.77637501	54.5%	80.0%	12	12	3	10
13.17815594	50.0%	80.0%	11	12	3	11
14.70426566	45.5%	80.0%	10	12	3	12
18.11626496	40.9%	80.0%	9	12	3	13
20.74477865	40.9%	86.7%	9	13	2	13
21.72001082	40.9%	93.3%	9	14	1	13
22.61295945	36.4%	93.3%	8	14	1	14
28.44256416	31.8%	93.3%	7	14	1	15
28.59767222	31.8%	100.0%	7	15	0	15
31.1639502	27.3%	100.0%	6	15	0	16
34.82375034	22.7%	100.0%	5	15	0	17
36.530145	18.2%	100.0%	4	15	0	18
68.51218679	13.6%	100.0%	3	15	0	19
72.06446204	9.1%	100.0%	2	15	0	20
76.93895384	4.5%	100.0%	1	15	0	21
1132.766318	0.0%	100.0%	0	15	0	22

Figure 15B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6678_13 by SAMP_GRP

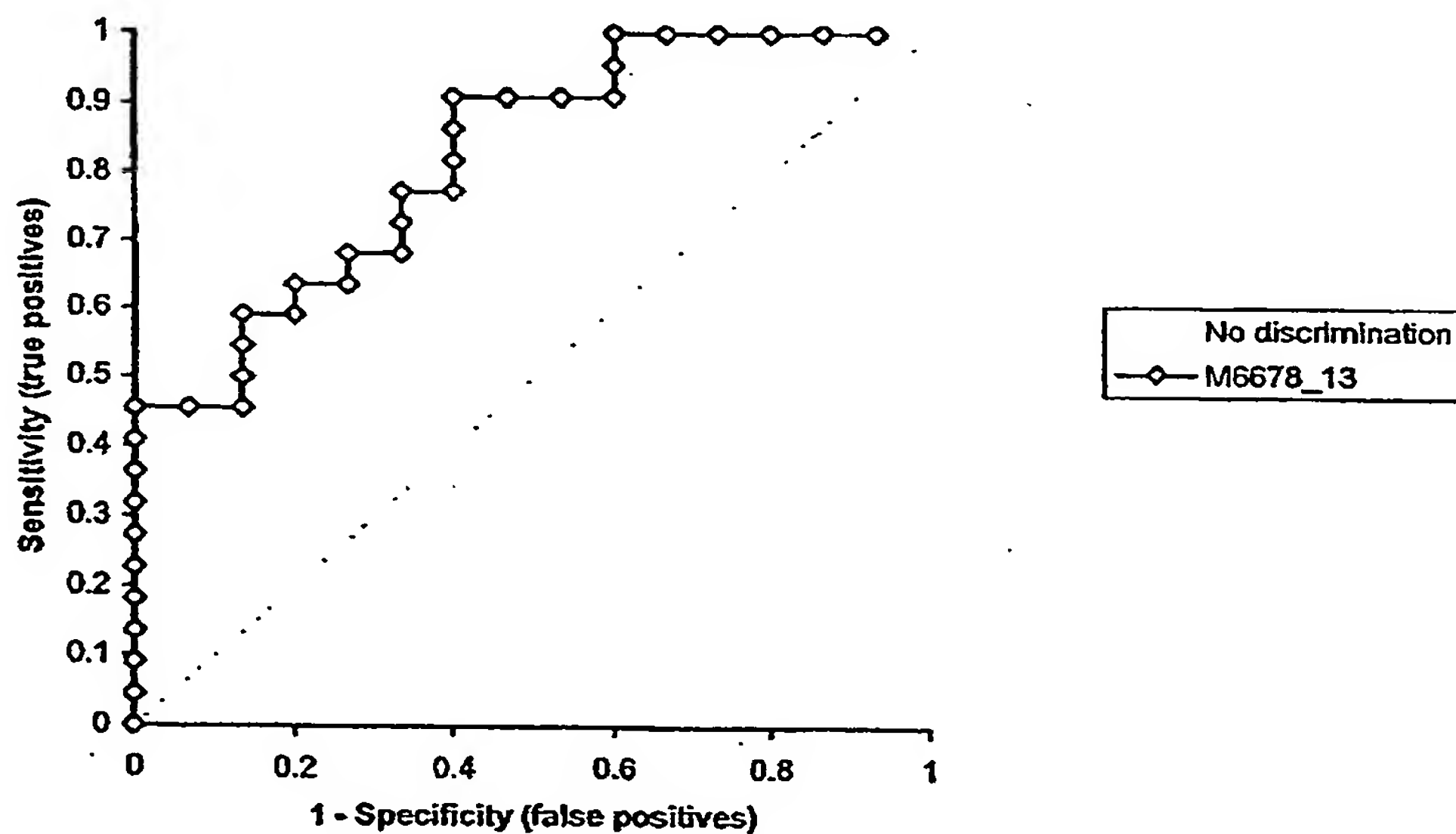
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M6678_13	0.821	0.0683	<0.0001	0.687 to 0.955	have higher values



M6678_13 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.172067082	100.0%	6.7%	22	1	14	0

FIGURE 16A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6678_13 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.804078156	100.0%	13.3%	22	2	13	0
0.947881336	100.0%	20.0%	22	3	12	0
1.776830937	100.0%	26.7%	22	4	11	0
1.815583274	100.0%	33.3%	22	5	10	0
1.87952221	100.0%	40.0%	22	6	9	0
2.215304578	95.5%	40.0%	21	6	9	1
2.686887113	90.9%	40.0%	20	6	9	2
3.418198784	90.9%	46.7%	20	7	8	2
3.569813842	90.9%	53.3%	20	8	7	2
4.140555716	90.9%	60.0%	20	9	6	2
4.854915071	86.4%	60.0%	19	9	6	3
4.910729785	81.8%	60.0%	18	9	6	4
7.495729351	77.3%	60.0%	17	9	6	5
7.529526451	77.3%	66.7%	17	10	5	5
8.141631464	72.7%	66.7%	16	10	5	6
8.894175505	68.2%	66.7%	15	10	5	7
9.897687452	68.2%	73.3%	15	11	4	7
10.70496756	63.6%	73.3%	14	11	4	8
11.04636753	63.6%	80.0%	14	12	3	8
11.87418655	59.1%	80.0%	13	12	3	9
12.11700223	59.1%	86.7%	13	13	2	9
12.99470979	54.5%	86.7%	12	13	2	10
15.29949571	50.0%	86.7%	11	13	2	11
15.49869338	45.5%	86.7%	10	13	2	12
17.01670817	45.5%	93.3%	10	14	1	12
17.39670531	45.5%	100.0%	10	15	0	12
21.15304525	40.9%	100.0%	9	15	0	13
25.24524975	36.4%	100.0%	8	15	0	14
26.35790954	31.8%	100.0%	7	15	0	15
40.71351756	27.3%	100.0%	6	15	0	16
49.3578222	22.7%	100.0%	5	15	0	17
54.7182916	18.2%	100.0%	4	15	0	18
62.09784715	13.6%	100.0%	3	15	0	19
66.98593778	9.1%	100.0%	2	15	0	20
112.5819998	4.5%	100.0%	1	15	0	21
421.1384813	0.0%	100.0%	0	15	0	22

Figure 16B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6812_97 by SAMP_GRP

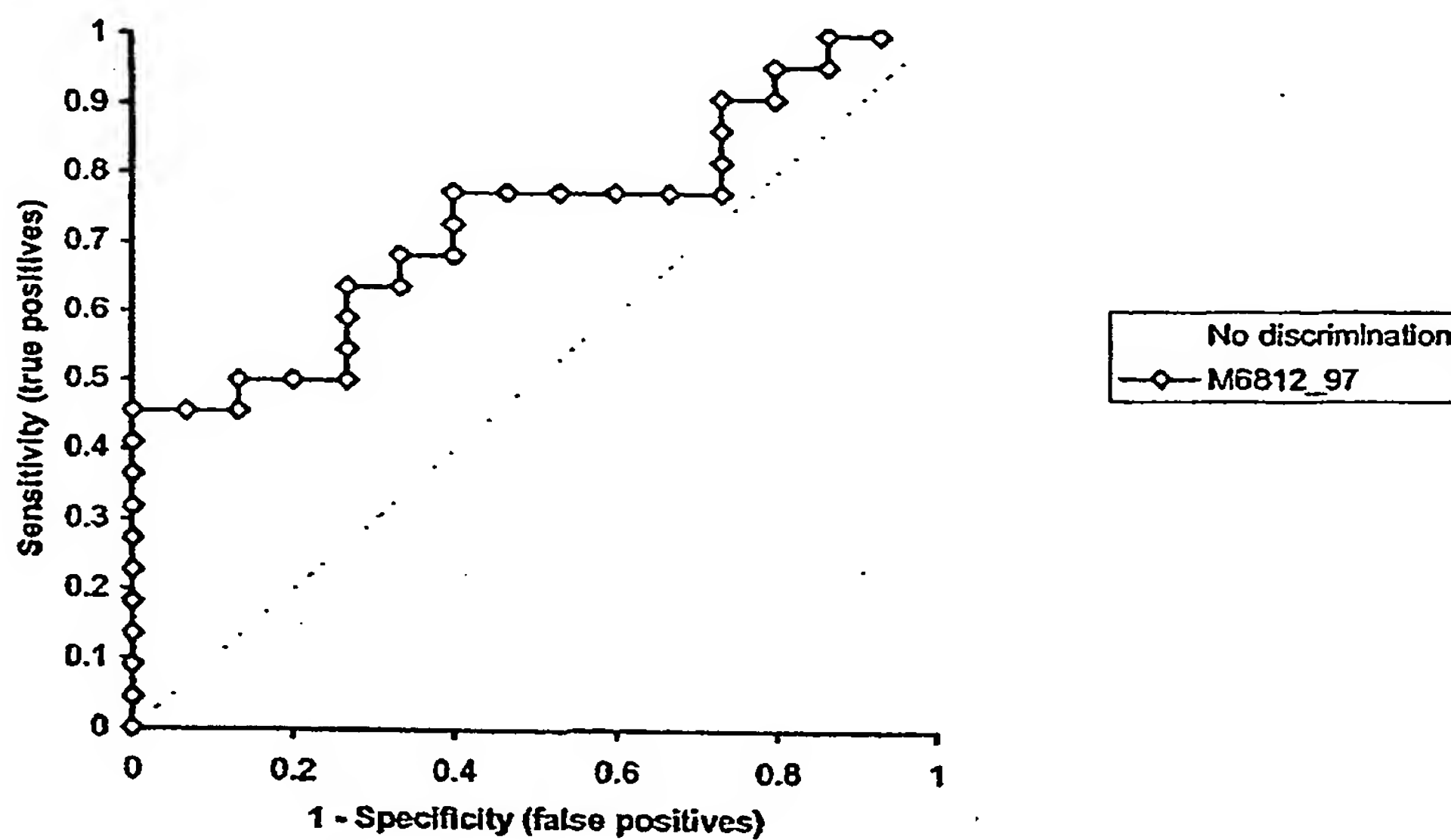
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M6812_97	0.730	0.0820	0.0025	0.570 to 0.891	have higher values



M6812_97 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.00087157	100.0%	6.7%	22	1	14	0

FIGURE 17A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6812_97 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.083697961	100.0%	13.3%	22	2	13	0
0.10179494	95.5%	13.3%	21	2	13	1
0.525080407	95.5%	20.0%	21	3	12	1
0.570354396	90.9%	20.0%	20	3	12	2
0.753188459	90.9%	26.7%	20	4	11	2
1.11285706	86.4%	26.7%	19	4	11	3
1.325208389	81.8%	26.7%	18	4	11	4
1.617507376	77.3%	26.7%	17	4	11	5
1.80310697	77.3%	33.3%	17	5	10	5
1.839397793	77.3%	40.0%	17	6	9	5
1.883035656	77.3%	46.7%	17	7	8	5
2.134774398	77.3%	53.3%	17	8	7	5
2.549415178	77.3%	60.0%	17	9	6	5
2.737012635	72.7%	60.0%	16	9	6	6
3.440345493	68.2%	60.0%	15	9	6	7
3.760823507	68.2%	66.7%	15	10	5	7
4.001239542	63.6%	66.7%	14	10	5	8
4.235485182	63.6%	73.3%	14	11	4	8
4.984817763	59.1%	73.3%	13	11	4	9
5.108312165	54.5%	73.3%	12	11	4	10
5.445686923	50.0%	73.3%	11	11	4	11
6.569652629	50.0%	80.0%	11	12	3	11
8.295531625	50.0%	86.7%	11	13	2	11
10.26293153	45.5%	86.7%	10	13	2	12
10.41860259	45.5%	93.3%	10	14	1	12
10.54561463	45.5%	100.0%	10	15	0	12
10.93678783	40.9%	100.0%	9	15	0	13
13.079319	36.4%	100.0%	8	15	0	14
14.73918594	31.8%	100.0%	7	15	0	15
15.85800335	27.3%	100.0%	6	15	0	16
17.43916435	22.7%	100.0%	5	15	0	17
21.54469853	18.2%	100.0%	4	15	0	18
26.33373752	13.6%	100.0%	3	15	0	19
34.98959324	9.1%	100.0%	2	15	0	20
78.8916841	4.5%	100.0%	1	15	0	21
349.5455888	0.0%	100.0%	0	15	0	22

Figure 17B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6995_07 by SAMP_GRP

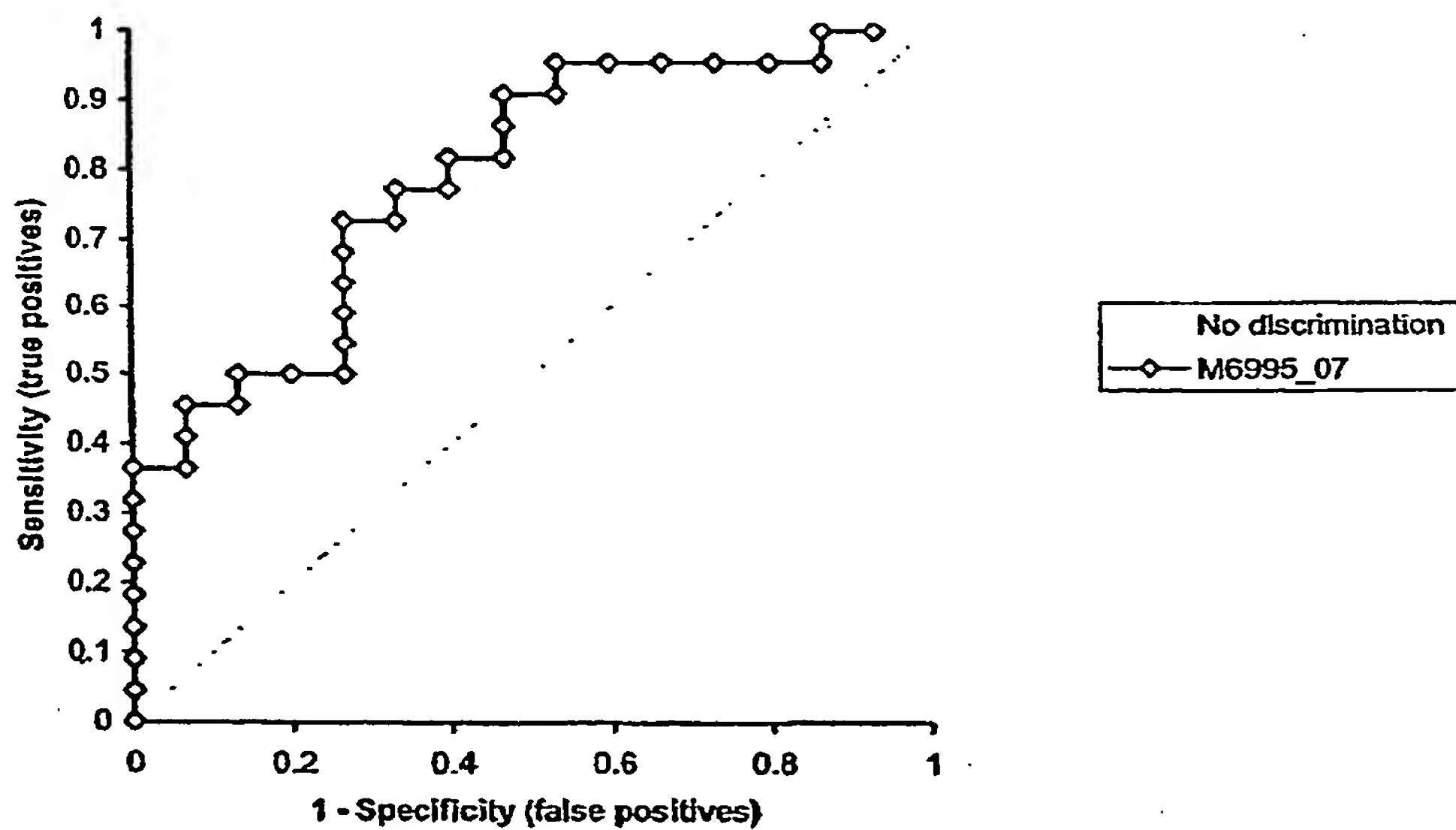
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M6995_07	0.788	0.0754	<0.0001	0.640 to 0.936	have higher values



M6995_07 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
1.491443956	100.0%	6.7%	22	1	14	0

FIGURE 18A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M6995_07 by SAMP_GRP							
Performed by	Benjamin Silverman	Date					
		14 August 2002					
3.064382087	100.0%	13.3%	22	2	13	0	
3.211056923	95.5%	13.3%	21	2	13	1	
3.575587562	95.5%	20.0%	21	3	12	1	
3.590078119	95.5%	26.7%	21	4	11	1	
3.64230464	95.5%	33.3%	21	5	10	1	
3.810235534	95.5%	40.0%	21	6	9	1	
6.561735067	95.5%	46.7%	21	7	8	1	
6.569795399	90.9%	46.7%	20	7	8	2	
6.985274137	90.9%	53.3%	20	8	7	2	
7.844524644	86.4%	53.3%	19	8	7	3	
8.233274241	81.8%	53.3%	18	8	7	4	
8.552871855	81.8%	60.0%	18	9	6	4	
8.581003414	77.3%	60.0%	17	9	6	5	
9.276961217	77.3%	66.7%	17	10	5	5	
9.71746827	72.7%	66.7%	16	10	5	6	
10.65779175	72.7%	73.3%	16	11	4	6	
12.8063091	68.2%	73.3%	15	11	4	7	
14.37145601	63.6%	73.3%	14	11	4	8	
14.46510595	59.1%	73.3%	13	11	4	9	
14.51627012	54.5%	73.3%	12	11	4	10	
14.94070151	50.0%	73.3%	11	11	4	11	
17.48944524	50.0%	80.0%	11	12	3	11	
20.38931912	50.0%	86.7%	11	13	2	11	
20.4113395	45.5%	86.7%	10	13	2	12	
25.92763801	45.5%	93.3%	10	14	1	12	
26.40659722	40.9%	93.3%	9	14	1	13	
26.74725392	36.4%	93.3%	8	14	1	14	
32.42243868	36.4%	100.0%	8	15	0	14	
38.44615454	31.8%	100.0%	7	15	0	15	
39.5757897	27.3%	100.0%	6	15	0	16	
42.93915647	22.7%	100.0%	5	15	0	17	
44.44568121	18.2%	100.0%	4	15	0	18	
44.51626947	13.6%	100.0%	3	15	0	19	
95.0004203	9.1%	100.0%	2	15	0	20	
141.0738233	4.5%	100.0%	1	15	0	21	
3147.932227	0.0%	100.0%	0	15	0	22	

Figure 18B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M7092_76 by SAMP_GRP

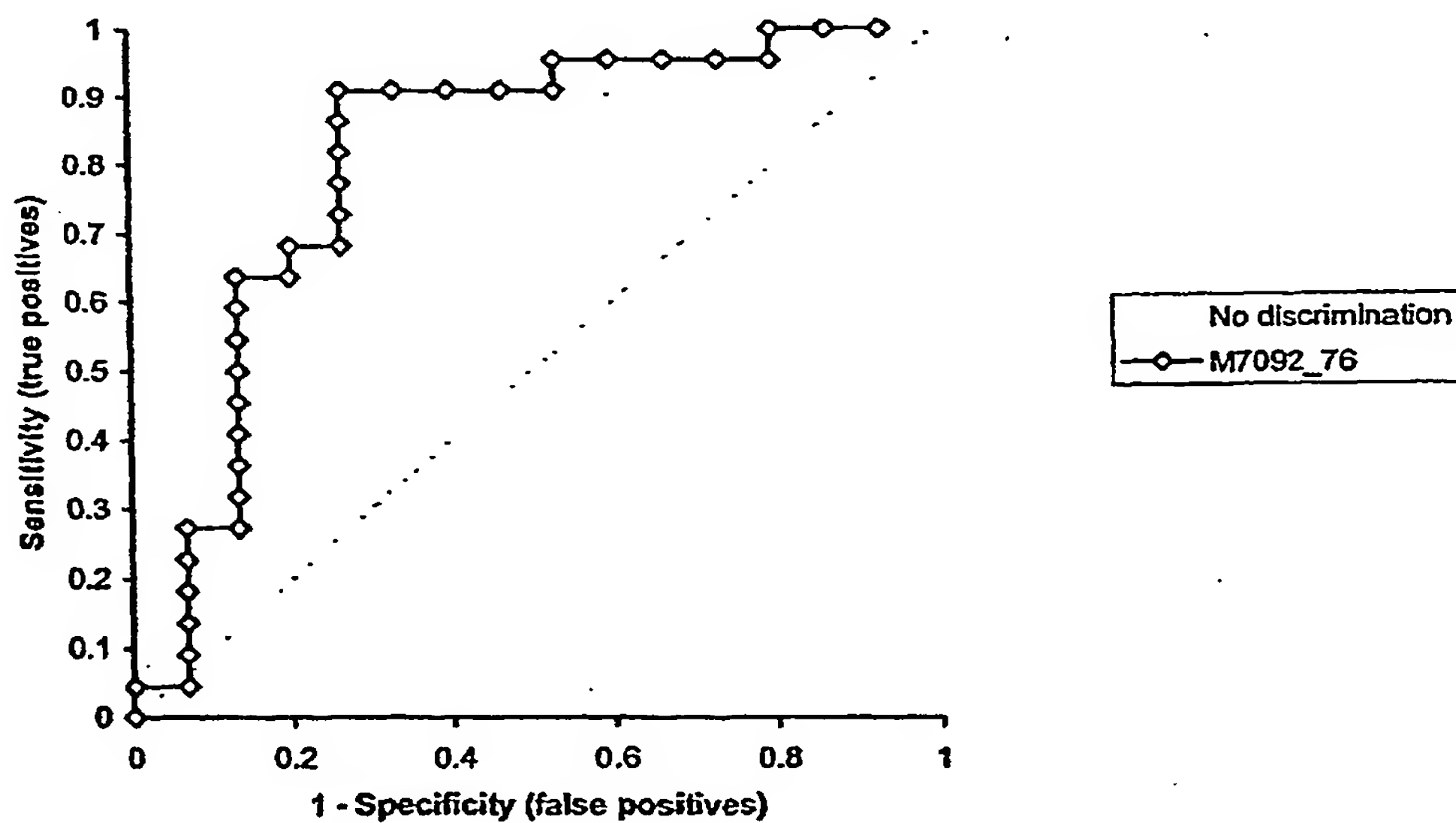
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M7092_76	0.806	0.0814	<0.0001	0.647 to 0.966	have higher values



M7092_76 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.116985513	100.0%	6.7%	22	1	14	0

FIGURE 19A

38/99

10/530017

Test Receiver Operator Characteristic (ROC) curves

M7092_76 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

1.862910226	100.0%	13.3%	22	2	13	0
2.957763417	100.0%	20.0%	22	3	12	0
3.222148121	95.5%	20.0%	21	3	12	1
3.27231959	95.5%	26.7%	21	4	11	1
3.282820708	95.5%	33.3%	21	5	10	1
4.001971072	95.5%	40.0%	21	6	9	1
4.04949334	95.5%	46.7%	21	7	8	1
4.153630114	90.9%	46.7%	20	7	8	2
4.497343511	90.9%	53.3%	20	8	7	2
4.918339938	90.9%	60.0%	20	9	6	2
5.151284095	90.9%	66.7%	20	10	5	2
5.334167589	90.9%	73.3%	20	11	4	2
5.552935622	86.4%	73.3%	19	11	4	3
5.901348367	81.8%	73.3%	18	11	4	4
6.449491292	77.3%	73.3%	17	11	4	5
8.769308501	72.7%	73.3%	16	11	4	6
8.803059652	68.2%	73.3%	15	11	4	7
8.919510428	68.2%	80.0%	15	12	3	7
10.19427001	63.6%	80.0%	14	12	3	8
10.45580495	63.6%	86.7%	14	13	2	8
12.59614789	59.1%	86.7%	13	13	2	9
16.83451689	54.5%	86.7%	12	13	2	10
22.00466543	50.0%	86.7%	11	13	2	11
23.47247801	45.5%	86.7%	10	13	2	12
26.17734222	40.9%	86.7%	9	13	2	13
27.02830203	36.4%	86.7%	8	13	2	14
29.83138707	31.8%	86.7%	7	13	2	15
39.98526477	27.3%	86.7%	6	13	2	16
44.65059349	27.3%	93.3%	6	14	1	16
46.65430614	22.7%	93.3%	5	14	1	17
54.13737253	18.2%	93.3%	4	14	1	18
100.3851762	13.6%	93.3%	3	14	1	19
110.8760403	9.1%	93.3%	2	14	1	20
153.059446	4.5%	93.3%	1	14	1	21
168.4616351	4.5%	100.0%	1	15	0	21
426.5909767	0.0%	100.0%	0	15	0	22

Figure 19B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M7314_17 by SAMP_GRP

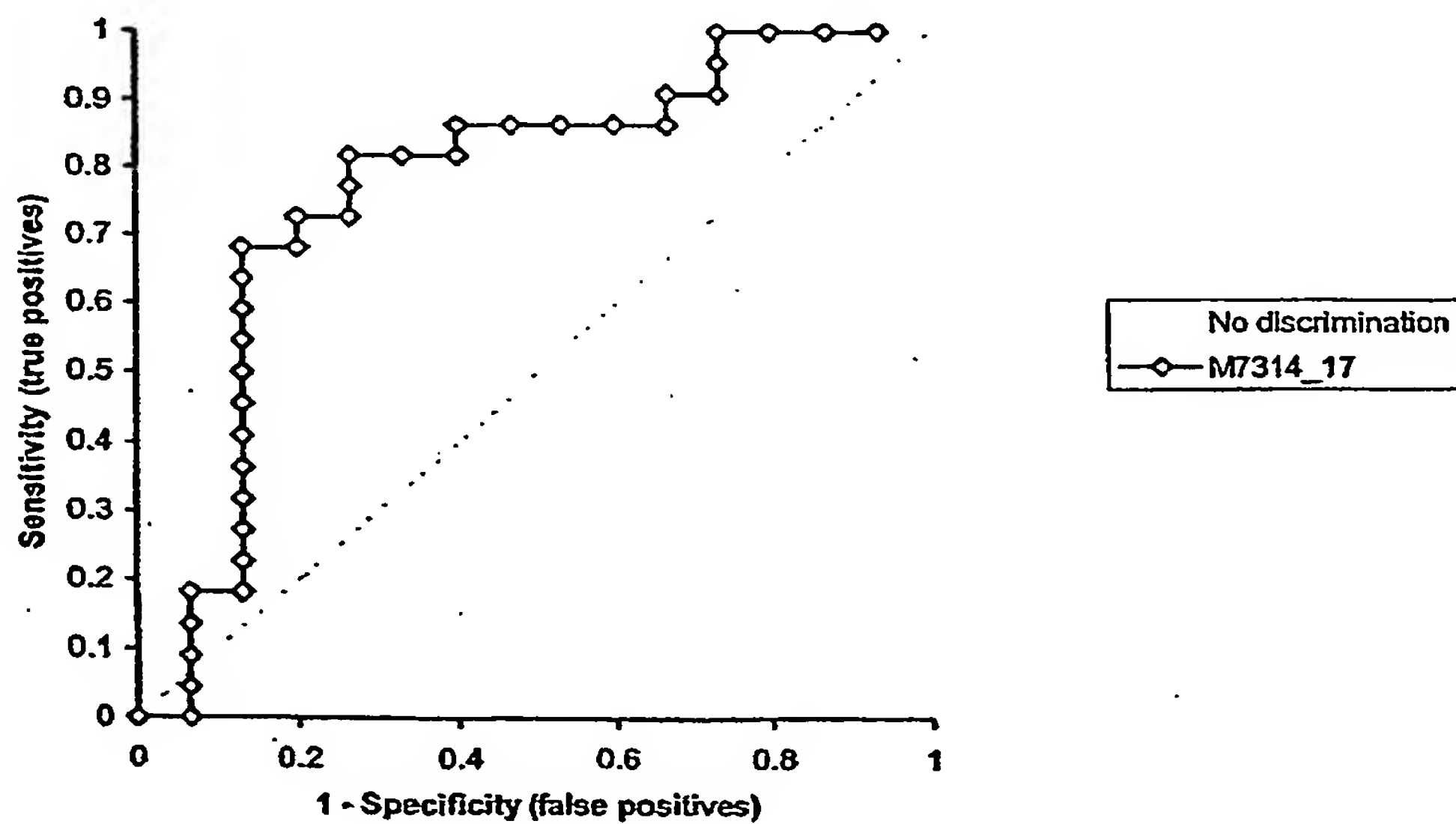
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M7314_17	0.773	0.0867	0.0008	0.603 to 0.943	have higher values



M7314_17 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
1.114997332	100.0%	6.7%	22	1	14	0

FIGURE 20 A

10/530017

Test	Receiver Operator Characteristic (ROC) curves					
	M7314_17 by SAMP_GRP					
Performed by	Benjamin Silverman				Date	14 August 2002
1.180169107	100.0%	13.3%	22	2	13	0
1.224623102	100.0%	20.0%	22	3	12	0
1.326553822	100.0%	26.7%	22	4	11	0
1.709052162	95.5%	26.7%	21	4	11	1
1.77348404	90.9%	26.7%	20	4	11	2
2.236875714	90.9%	33.3%	20	5	10	2
2.240777654	86.4%	33.3%	19	5	10	3
2.352830697	86.4%	40.0%	19	6	9	3
2.475113163	86.4%	46.7%	19	7	8	3
2.834024541	86.4%	53.3%	19	8	7	3
2.919756862	86.4%	60.0%	19	9	6	3
2.964311998	81.8%	60.0%	18	9	6	4
2.98055665	81.8%	66.7%	18	10	5	4
3.310074994	81.8%	73.3%	18	11	4	4
3.873756225	77.3%	73.3%	17	11	4	5
5.048148574	72.7%	73.3%	16	11	4	6
5.051833408	72.7%	80.0%	16	12	3	6
6.248643692	68.2%	80.0%	15	12	3	7
6.682066684	68.2%	86.7%	15	13	2	7
8.598671796	63.6%	86.7%	14	13	2	8
9.39521205	59.1%	86.7%	13	13	2	9
10.56821695	54.5%	86.7%	12	13	2	10
13.53952374	50.0%	86.7%	11	13	2	11
14.17616623	45.5%	86.7%	10	13	2	12
15.60825923	40.9%	86.7%	9	13	2	13
17.90393685	36.4%	86.7%	8	13	2	14
19.91147186	31.8%	86.7%	7	13	2	15
25.18734431	27.3%	86.7%	6	13	2	16
27.36118714	22.7%	86.7%	5	13	2	17
32.78098195	18.2%	86.7%	4	13	2	18
34.78889153	18.2%	93.3%	4	14	1	18
43.45506451	13.6%	93.3%	3	14	1	19
59.53332127	9.1%	93.3%	2	14	1	20
63.66042898	4.5%	93.3%	1	14	1	21
69.34508241	0.0%	93.3%	0	14	1	22
73.87428099	0.0%	100.0%	0	15	0	22

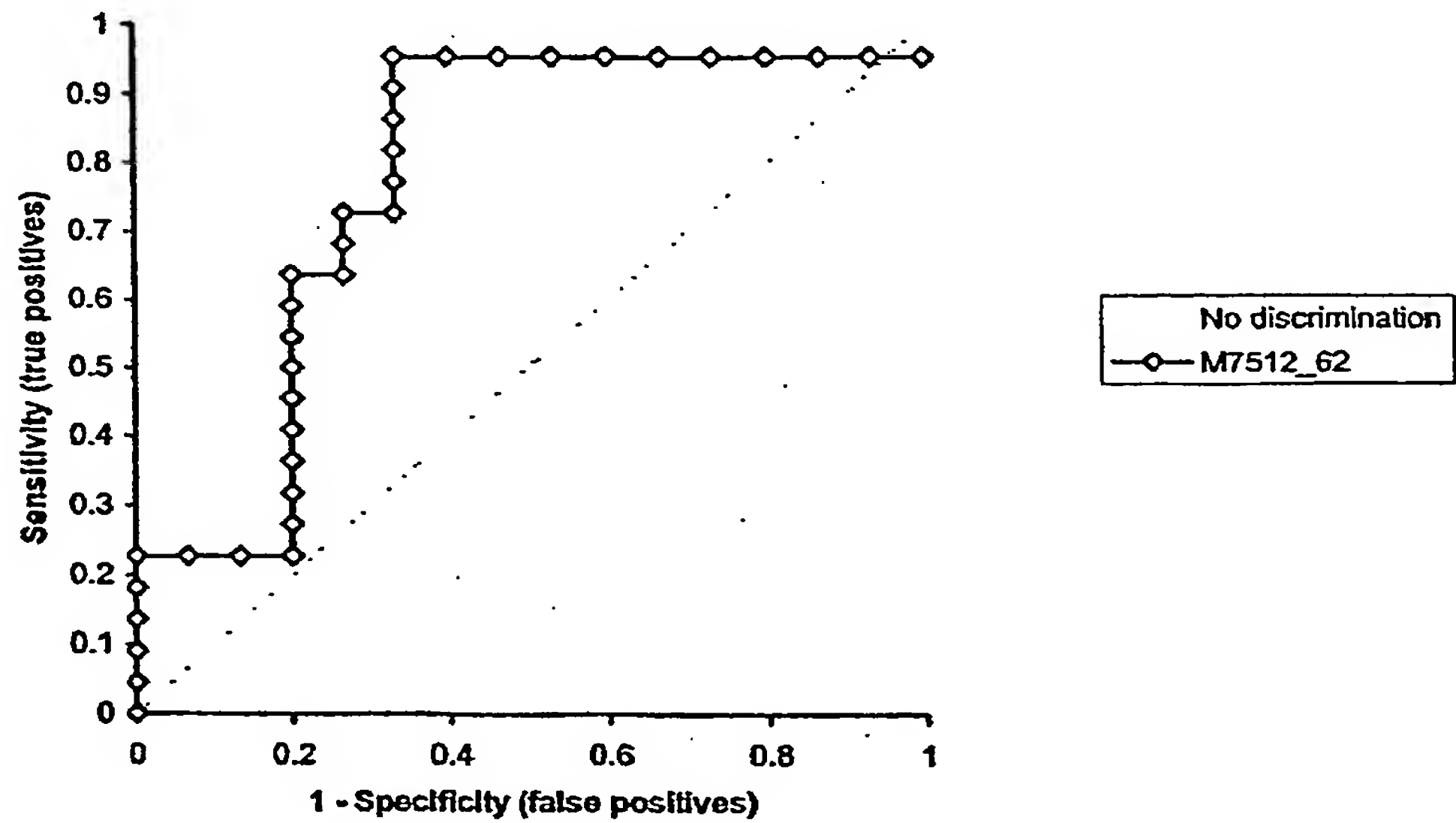
Figure 20!

10/530017

Test	Receiver Operator Characteristic (ROC) curves		
	M7512_62 by SAMP_GRP		
Performed by	Benjamin Silverman	Date	14 August 2002

n	37
SAMP_GRP	
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M7512_62	0.773	0.0871	0.0009	0.602 to 0.943	have higher values



M7512_62 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.625410695	95.5%	0.0%	21	0	15	1

FIGURE 21 A

10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M7512_62 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
0.762104663	95.5%	6.7%	21	1	14	1	
1.122272393	95.5%	13.3%	21	2	13	1	
1.378372019	95.5%	20.0%	21	3	12	1	
1.546262948	95.5%	26.7%	21	4	11	1	
1.643886277	95.5%	33.3%	21	5	10	1	
1.661108564	95.5%	40.0%	21	6	9	1	
3.058893486	95.5%	46.7%	21	7	8	1	
3.78575016	95.5%	53.3%	21	8	7	1	
3.846409634	95.5%	60.0%	21	9	6	1	
3.907858158	95.5%	66.7%	21	10	5	1	
4.753500925	90.9%	66.7%	20	10	5	2	
4.94581107	86.4%	66.7%	19	10	5	3	
5.833371244	81.8%	66.7%	18	10	5	4	
5.872789172	77.3%	66.7%	17	10	5	5	
5.879481156	72.7%	66.7%	16	10	5	6	
6.660721221	72.7%	73.3%	16	11	4	6	
7.500832279	68.2%	73.3%	15	11	4	7	
7.675599479	63.6%	73.3%	14	11	4	8	
7.972317528	63.6%	80.0%	14	12	3	8	
10.66838021	59.1%	80.0%	13	12	3	9	
11.59554514	54.5%	80.0%	12	12	3	10	
12.97571036	50.0%	80.0%	11	12	3	11	
14.88590508	45.5%	80.0%	10	12	3	12	
17.39851187	40.9%	80.0%	9	12	3	13	
20.28527567	36.4%	80.0%	8	12	3	14	
21.55862835	31.8%	80.0%	7	12	3	15	
24.05640739	27.3%	80.0%	6	12	3	16	
25.55057933	22.7%	80.0%	5	12	3	17	
25.57183388	22.7%	86.7%	5	13	2	17	
28.47338716	22.7%	93.3%	5	14	1	17	
31.73736348	22.7%	100.0%	5	15	0	17	
51.03701678	18.2%	100.0%	4	15	0	18	
55.37243893	13.6%	100.0%	3	15	0	19	
91.83881699	9.1%	100.0%	2	15	0	20	
126.9859246	4.5%	100.0%	1	15	0	21	
165.9115088	0.0%	100.0%	0	15	0	22	

Figure 21 P

10/530017

Test Receiver Operator Characteristic (ROC) curves

M7794_82 by SAMP_GRP

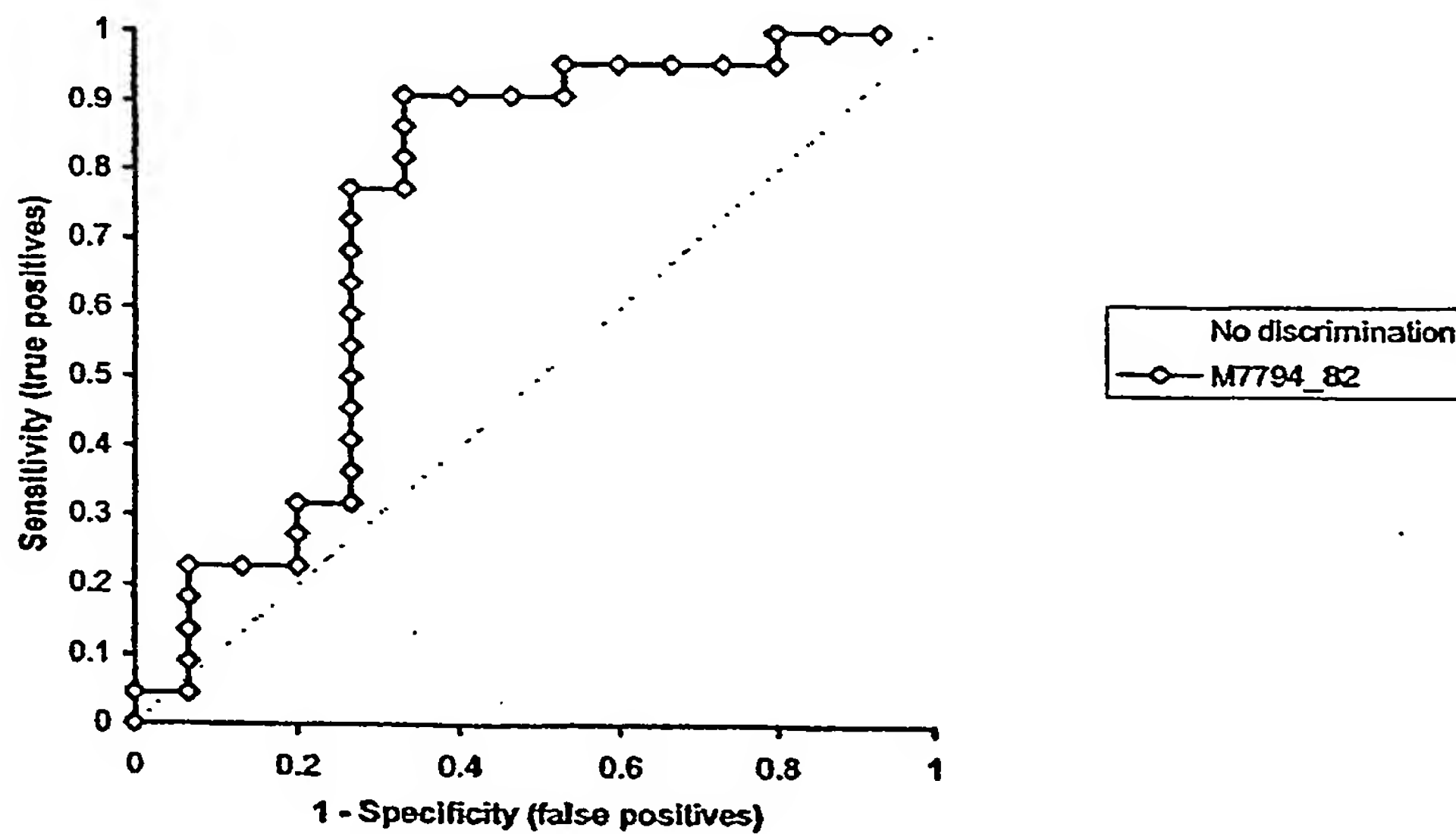
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M7794_82	0.742	0.0938	0.0049	0.559 to 0.926	have higher values



M7794_82 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.08627241	100.0%	6.7%	22	1	14	0

FIGURE 22A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M7794_82 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.013815951	100.0%	13.3%	22	2	13	0
0.049455599	100.0%	20.0%	22	3	12	0
0.095260382	95.5%	20.0%	21	3	12	1
0.109513792	95.5%	26.7%	21	4	11	1
0.186117689	95.5%	33.3%	21	5	10	1
0.402645583	95.5%	40.0%	21	6	9	1
0.452914233	95.5%	46.7%	21	7	8	1
0.484984253	90.9%	46.7%	20	7	8	2
0.536323113	90.9%	53.3%	20	8	7	2
0.563391393	90.9%	60.0%	20	9	6	2
0.693832415	90.9%	66.7%	20	10	5	2
0.765652442	86.4%	66.7%	19	10	5	3
0.783555475	81.8%	66.7%	18	10	5	4
0.858183653	77.3%	66.7%	17	10	5	5
0.888201349	77.3%	73.3%	17	11	4	5
0.902269861	72.7%	73.3%	16	11	4	6
0.908749925	68.2%	73.3%	15	11	4	7
0.954138409	63.6%	73.3%	14	11	4	8
0.956932268	59.1%	73.3%	13	11	4	9
1.040190836	54.5%	73.3%	12	11	4	10
1.38805676	50.0%	73.3%	11	11	4	11
1.462958498	45.5%	73.3%	10	11	4	12
1.565809169	40.9%	73.3%	9	11	4	13
1.639589588	36.4%	73.3%	8	11	4	14
1.659493689	31.8%	73.3%	7	11	4	15
1.797384017	31.8%	80.0%	7	12	3	15
1.821160291	27.3%	80.0%	6	12	3	16
1.958973143	22.7%	80.0%	5	12	3	17
2.138566227	22.7%	86.7%	5	13	2	17
2.14742124	22.7%	93.3%	5	14	1	17
2.880841629	18.2%	93.3%	4	14	1	18
3.76104205	13.6%	93.3%	3	14	1	19
5.412710799	9.1%	93.3%	2	14	1	20
11.82552702	4.5%	93.3%	1	14	1	21
23.67610979	4.5%	100.0%	1	15	0	21
44.68965421	0.0%	100.0%	0	15	0	22

Figure 22B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M8008_80 by SAMP_GRP

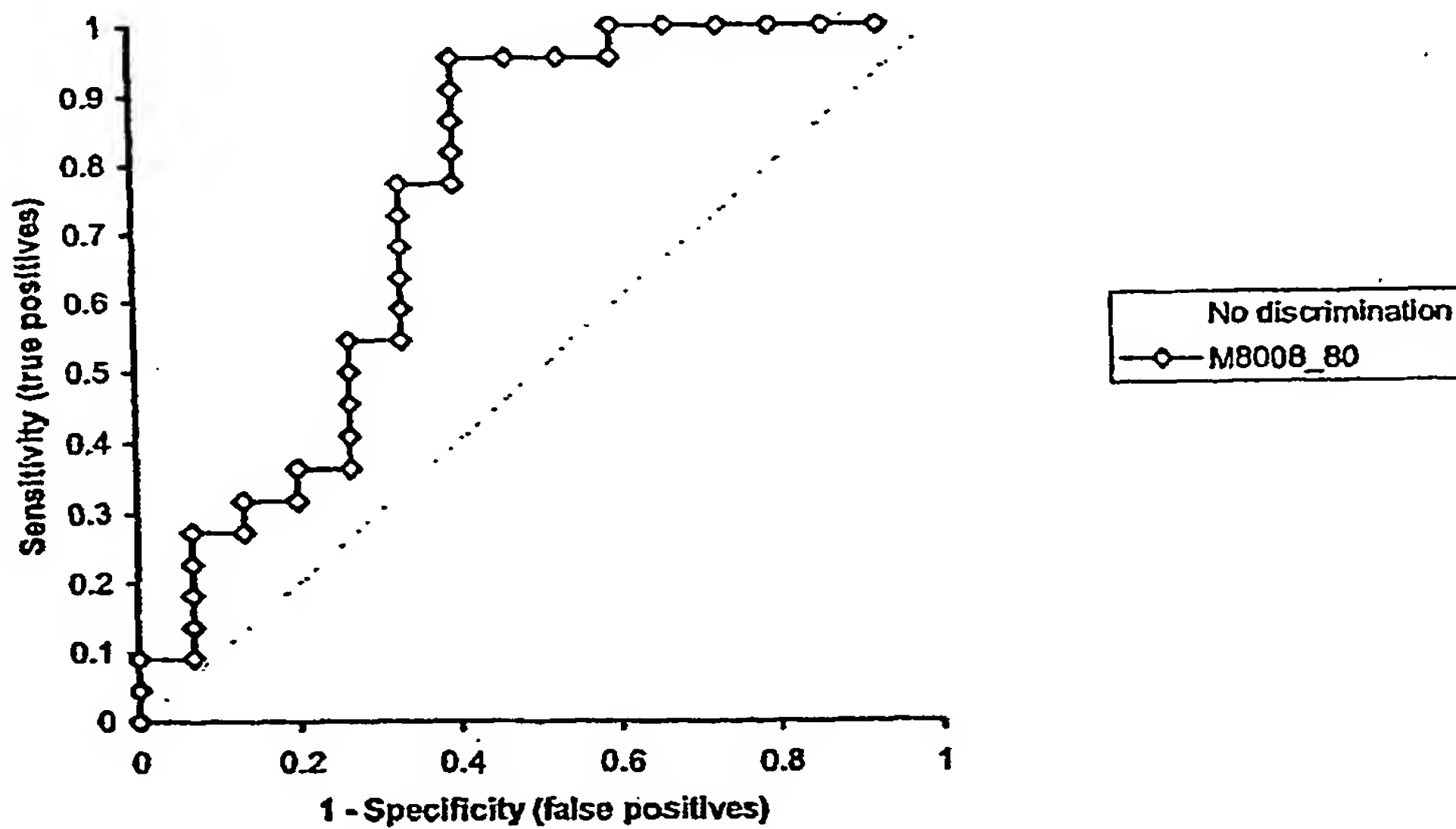
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M8008_80	0.748	0.0901	0.0029	0.572 to 0.925	have higher values



M8008_80 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
1.11982771	100.0%	6.7%	22	1	14	0

FIGURE 23 A

10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M8008_80 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
1.359759553	100.0%	13.3%	22	2	13	0	
2.654253558	100.0%	20.0%	22	3	12	0	
2.808461046	100.0%	26.7%	22	4	11	0	
3.26845117	100.0%	33.3%	22	5	10	0	
3.528811365	100.0%	40.0%	22	6	9	0	
3.536888491	95.5%	40.0%	21	6	9	1	
3.690604924	95.5%	46.7%	21	7	8	1	
3.846135566	95.5%	53.3%	21	8	7	1	
4.063516487	95.5%	60.0%	21	9	6	1	
4.968072731	90.9%	60.0%	20	9	6	2	
5.11309322	86.4%	60.0%	19	9	6	3	
5.244061045	81.8%	60.0%	18	9	6	4	
5.519460219	77.3%	60.0%	17	9	6	5	
5.746787228	77.3%	66.7%	17	10	5	5	
5.888803285	72.7%	66.7%	16	10	5	6	
6.029356242	68.2%	66.7%	15	10	5	7	
6.808604885	63.6%	66.7%	14	10	5	8	
7.221723174	59.1%	66.7%	13	10	5	9	
9.085606959	54.5%	66.7%	12	10	5	10	
9.917829533	54.5%	73.3%	12	11	4	10	
9.97218851	50.0%	73.3%	11	11	4	11	
11.13193439	45.5%	73.3%	10	11	4	12	
12.52006708	40.9%	73.3%	9	11	4	13	
14.11770896	36.4%	73.3%	8	11	4	14	
14.2002752	36.4%	80.0%	8	12	3	14	
14.48384235	31.8%	80.0%	7	12	3	15	
14.97244447	31.8%	86.7%	7	13	2	15	
22.61737089	27.3%	86.7%	6	13	2	16	
22.63182262	27.3%	93.3%	6	14	1	16	
38.86081226	22.7%	93.3%	5	14	1	17	
44.85462631	18.2%	93.3%	4	14	1	18	
45.65159336	13.6%	93.3%	3	14	1	19	
57.40336361	9.1%	93.3%	2	14	1	20	
71.56935595	9.1%	100.0%	2	15	0	20	
80.11117489	4.5%	100.0%	1	15	0	21	
85.83353633	0.0%	100.0%	0	15	0	22	

Figure 23B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M8126_49 by SAMP_GRP

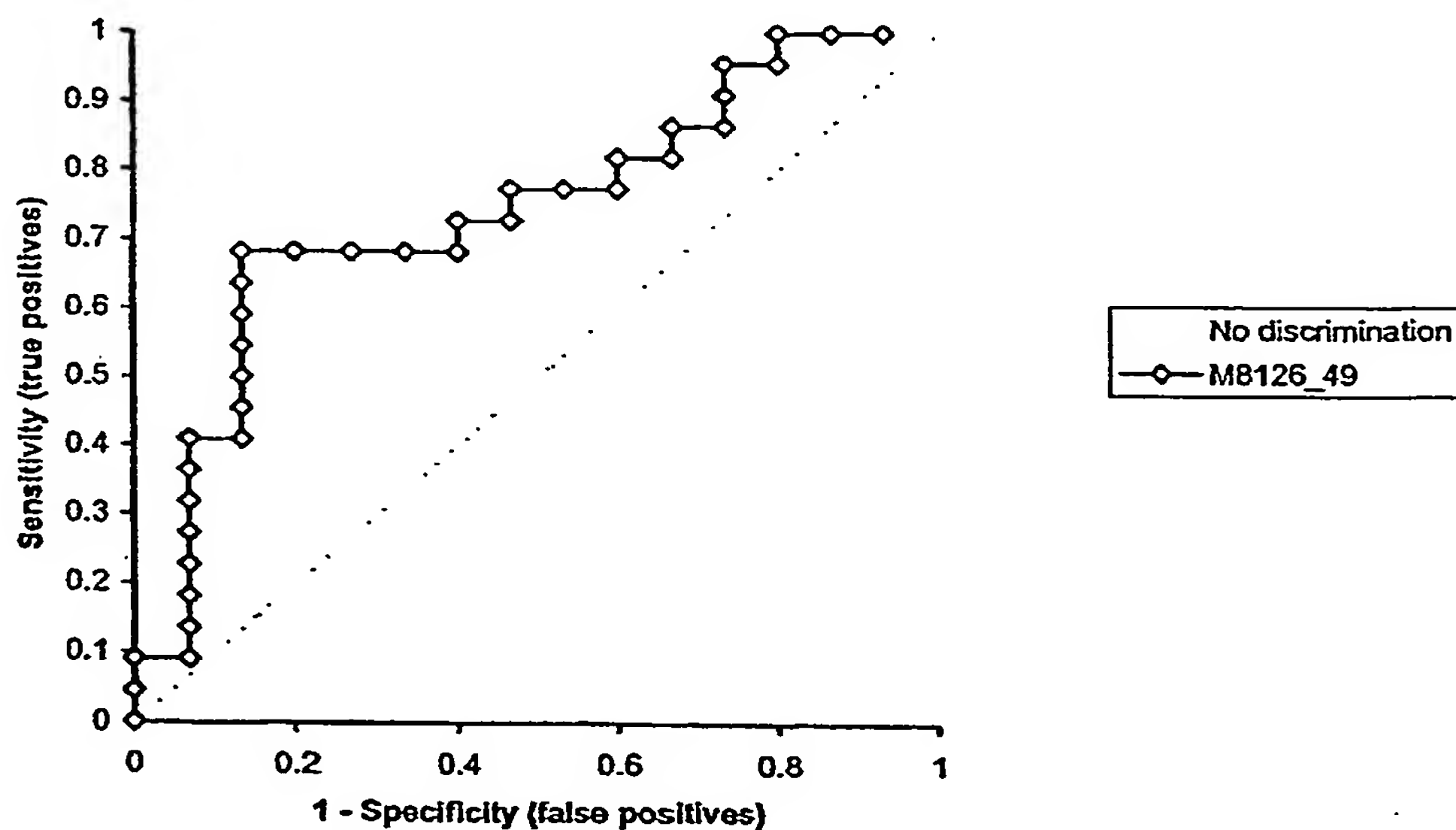
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M8126_49	0.742	0.0842	0.0020	0.577 to 0.907	have higher values



M8126_49 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.242649757	100.0%	6.7%	22	1	14	0

FIGURE 24 A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M8126_49 by SAMP_GRP

Performed by

Benjamin Silverman

Date

14 August 2002

0.530442832	100.0%	13.3%	22	2	13	0
0.644223404	100.0%	20.0%	22	3	12	0
0.885640373	95.5%	20.0%	21	3	12	1
1.433559793	95.5%	26.7%	21	4	11	1
1.794431151	90.9%	26.7%	20	4	11	2
1.818318183	86.4%	26.7%	19	4	11	3
2.079303745	86.4%	33.3%	19	5	10	3
2.114695472	81.8%	33.3%	18	5	10	4
2.300483675	81.8%	40.0%	18	6	9	4
2.557169627	77.3%	40.0%	17	6	9	5
2.691146289	77.3%	46.7%	17	7	8	5
2.8048776	77.3%	53.3%	17	8	7	5
2.971536888	72.7%	53.3%	16	8	7	6
3.295574013	72.7%	60.0%	16	9	6	6
3.625766821	68.2%	60.0%	15	9	6	7
3.644660813	68.2%	66.7%	15	10	5	7
3.736933608	68.2%	73.3%	15	11	4	7
3.737652044	68.2%	80.0%	15	12	3	7
3.79710601	68.2%	86.7%	15	13	2	7
3.806135483	63.6%	86.7%	14	13	2	8
4.042986903	59.1%	86.7%	13	13	2	9
4.074173818	54.5%	86.7%	12	13	2	10
4.688852396	50.0%	86.7%	11	13	2	11
4.796496576	45.5%	86.7%	10	13	2	12
4.965020089	40.9%	86.7%	9	13	2	13
5.066333812	40.9%	93.3%	9	14	1	13
5.576272551	36.4%	93.3%	8	14	1	14
6.491330575	31.8%	93.3%	7	14	1	15
6.795353009	27.3%	93.3%	6	14	1	16
7.076142913	22.7%	93.3%	5	14	1	17
22.76210615	18.2%	93.3%	4	14	1	18
25.8590526	13.6%	93.3%	3	14	1	19
28.51064176	9.1%	93.3%	2	14	1	20
42.61452812	9.1%	100.0%	2	15	0	20
65.64727304	4.5%	100.0%	1	15	0	21
129.1652158	0.0%	100.0%	0	15	0	22

Figure 24B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9032_41 by SAMP_GRP

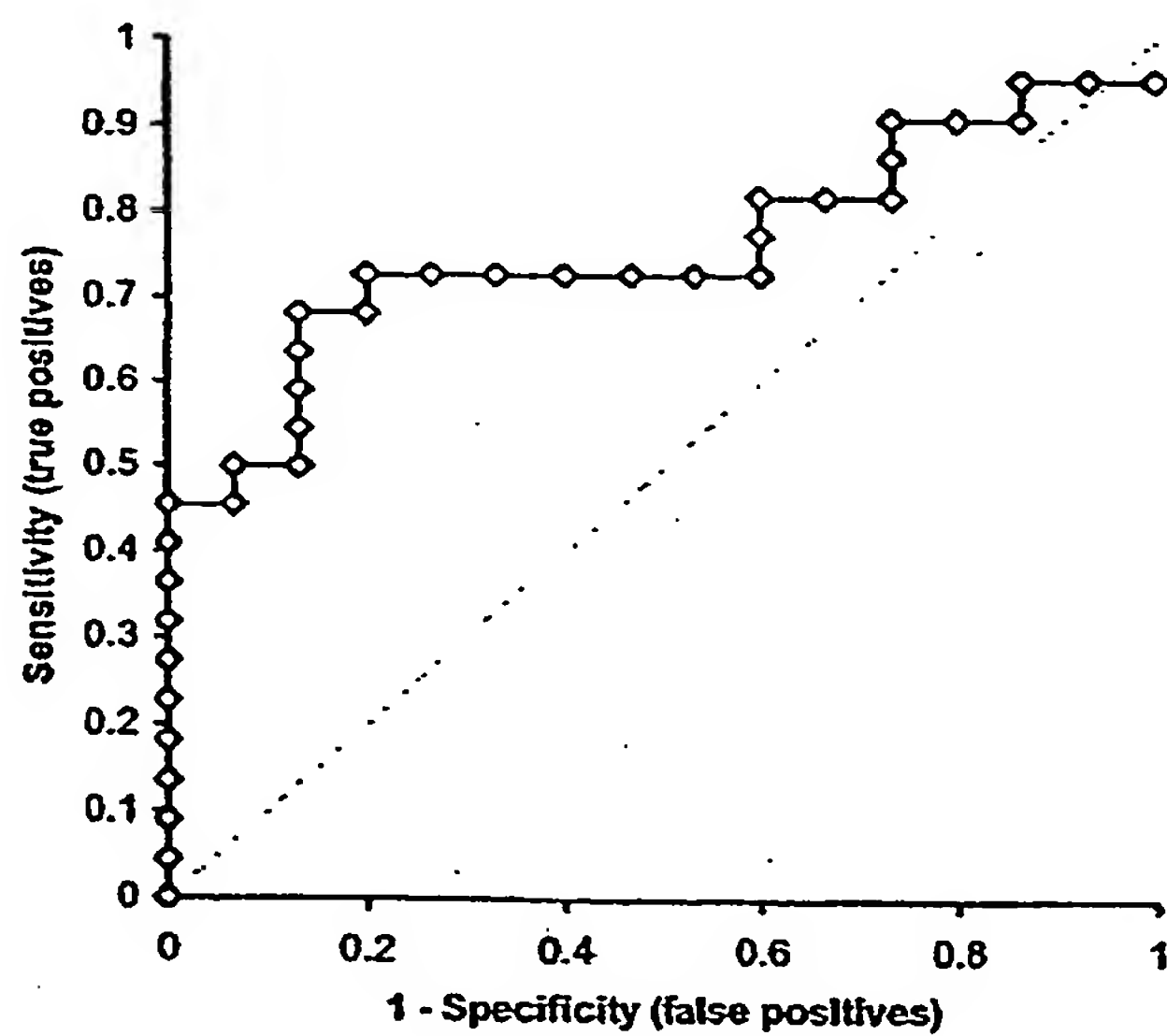
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M9032_41	0.758	0.0800	0.0006	0.601 to 0.914	have lower values



No discrimination
—◇— M9032_41

M9032_41 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.301214127	0.0%	100.0%	0	15	0	22

FIGURE 25A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9032_41 by SAMP_GRP

Performed by Benjamin Silverman

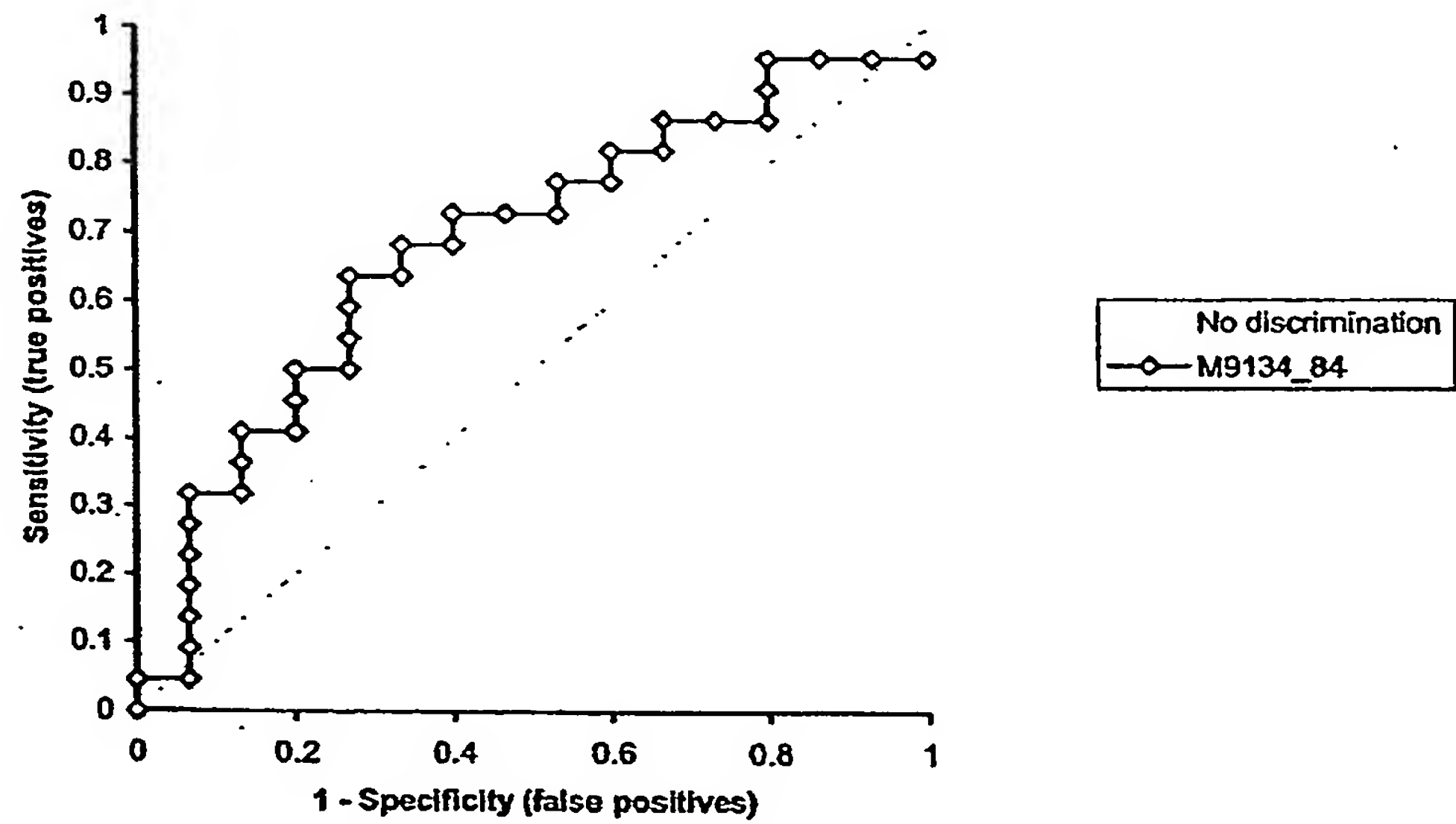
Date

14 August 2002

0.803405811	4.5%	100.0%	1	15	0	21
0.998249125	9.1%	100.0%	2	15	0	20
1.176635111	13.6%	100.0%	3	15	0	19
1.292732389	18.2%	100.0%	4	15	0	18
1.37399724	22.7%	100.0%	5	15	0	17
1.374238023	27.3%	100.0%	6	15	0	16
1.469324005	31.8%	100.0%	7	15	0	15
1.495648575	36.4%	100.0%	8	15	0	14
1.666667202	40.9%	100.0%	9	15	0	13
1.712649617	45.5%	100.0%	10	15	0	12
1.920543547	45.5%	93.3%	10	14	1	12
2.133352538	50.0%	93.3%	11	14	1	11
2.28590313	50.0%	86.7%	11	13	2	11
2.329098269	54.5%	86.7%	12	13	2	10
2.490115349	59.1%	86.7%	13	13	2	9
2.562278576	63.6%	86.7%	14	13	2	8
2.924448973	68.2%	86.7%	15	13	2	7
3.201543343	68.2%	80.0%	15	12	3	7
3.24060916	72.7%	80.0%	16	12	3	6
4.080807466	72.7%	73.3%	16	11	4	6
4.120817587	72.7%	66.7%	16	10	5	6
4.392505873	72.7%	60.0%	16	9	6	6
4.794477164	72.7%	53.3%	16	8	7	6
4.79606144	72.7%	46.7%	16	7	8	6
5.425100163	72.7%	40.0%	16	6	9	6
5.938344901	77.3%	40.0%	17	6	9	5
6.31378122	81.8%	40.0%	18	6	9	4
6.591704626	81.8%	33.3%	18	5	10	4
8.267892434	81.8%	26.7%	18	4	11	4
8.671042606	86.4%	26.7%	19	4	11	3
10.61510852	90.9%	26.7%	20	4	11	2
12.72350271	90.9%	20.0%	20	3	12	2
13.23403263	90.9%	13.3%	20	2	13	2
23.24713623	95.5%	13.3%	21	2	13	1
30.65382604	95.5%	6.7%	21	1	14	1
90.70489507	95.5%	0.0%	21	0	15	1

Figure 25D

Test	Receiver Operator Characteristic (ROC) curves				
	M9134_84 by SAMP_GRP				
Performed by	Benjamin Silverman			Date	14 August 2002
n	37				
SAMP_GRP	n				
0	15				
1	22				
Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M9134_84	0.682	0.0904	0.0221	0.505 to 0.859	have lower values



M9134_84	Sensitivity		Specificity	TP	TN	FP	FN
(abnormals below cut-off)							
-0.230457138	0.0%		100.0%	0	15	0	22

FIGURE 26A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9134_84 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.303716546	4.5%	100.0%	1	15	0	21
0.422909754	4.5%	93.3%	1	14	1	21
0.679789975	9.1%	93.3%	2	14	1	20
1.15660303	13.6%	93.3%	3	14	1	19
1.185904471	18.2%	93.3%	4	14	1	18
1.247739984	22.7%	93.3%	5	14	1	17
1.284010996	27.3%	93.3%	6	14	1	16
1.37596149	31.8%	93.3%	7	14	1	15
1.576186258	31.8%	86.7%	7	13	2	15
1.851196687	36.4%	86.7%	8	13	2	14
1.878772545	40.9%	86.7%	9	13	2	13
1.897908011	40.9%	80.0%	9	12	3	13
2.290261208	45.5%	80.0%	10	12	3	12
2.575036839	50.0%	80.0%	11	12	3	11
2.580613336	50.0%	73.3%	11	11	4	11
2.736807216	54.5%	73.3%	12	11	4	10
2.812866946	59.1%	73.3%	13	11	4	9
2.878357233	63.6%	73.3%	14	11	4	8
3.489262381	63.6%	66.7%	14	10	5	8
3.739002718	68.2%	66.7%	15	10	5	7
4.129794763	68.2%	60.0%	15	9	6	7
4.256950328	72.7%	60.0%	16	9	6	6
4.378021704	72.7%	53.3%	16	8	7	6
4.389813191	72.7%	46.7%	16	7	8	6
4.775583174	77.3%	46.7%	17	7	8	5
6.554049654	77.3%	40.0%	17	6	9	5
6.738969207	81.8%	40.0%	18	6	9	4
7.172153745	81.8%	33.3%	18	5	10	4
7.571982855	86.4%	33.3%	19	5	10	3
8.817682331	86.4%	26.7%	19	4	11	3
14.6752361	86.4%	20.0%	19	3	12	3
15.48975496	90.9%	20.0%	20	3	12	2
15.79923578	95.5%	20.0%	21	3	12	1
17.61892743	95.5%	13.3%	21	2	13	1
30.84421482	95.5%	6.7%	21	1	14	1
89.35626416	95.5%	0.0%	21	0	15	1

Figure 26P

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9259_73 by SAMP_GRP

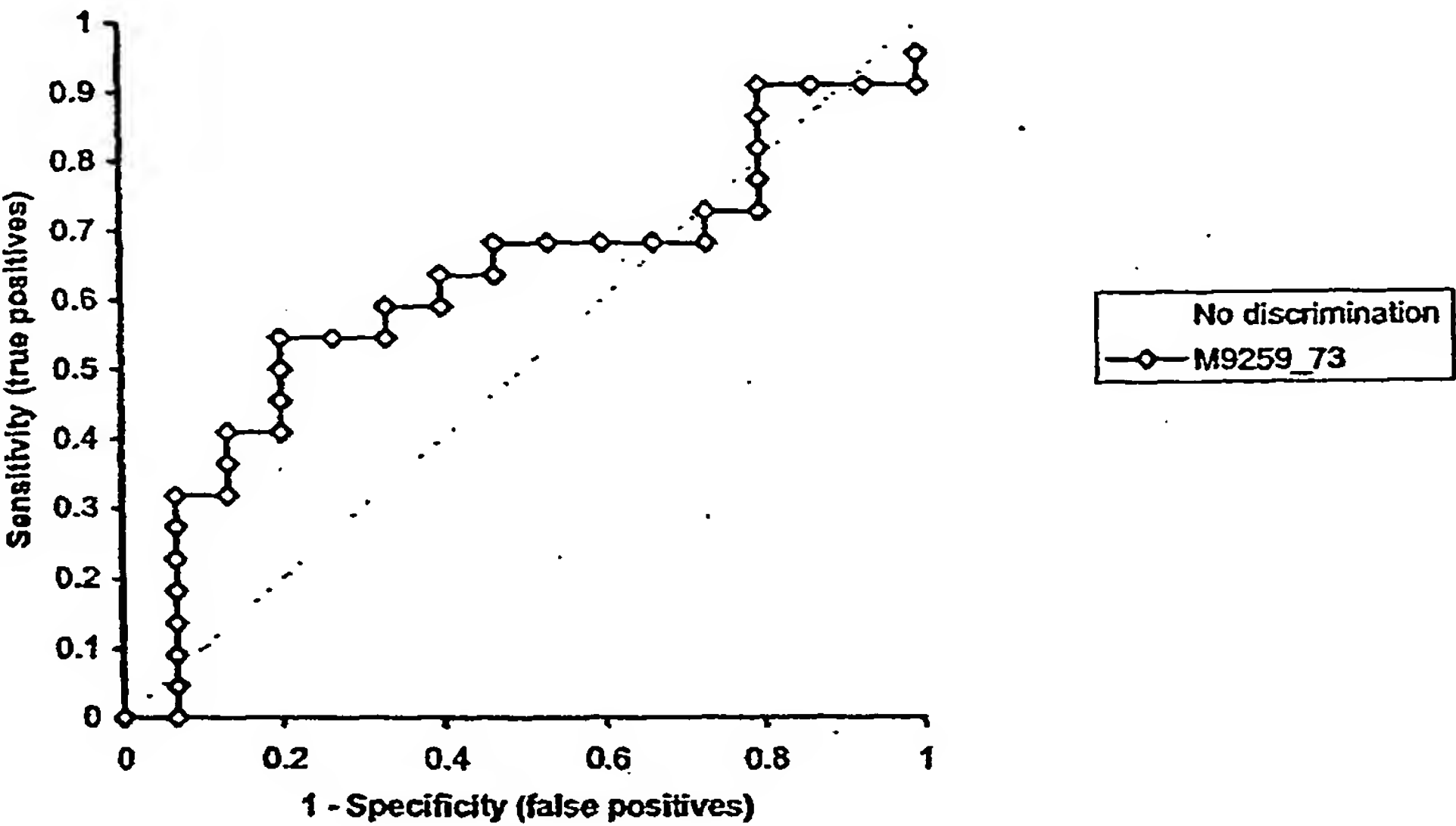
Performed by Benjamin Silverman

Date 16 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M9259_73	0.615	0.0949	0.1124	0.429 to 0.801	have lower values



M9259_73 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.313072149	0.0%	100.0%	0	15	0	22

FIGURE 27A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9259_73 by SAMP_GRP

Performed by Benjamin Silverman

Date

16 August 2002

-0.090034929	0.0%	93.3%	0	14	1	22
-0.087657336	4.5%	93.3%	1	14	1	21
0.025059587	9.1%	93.3%	2	14	1	20
0.0890659	13.6%	93.3%	3	14	1	19
0.137712694	18.2%	93.3%	4	14	1	18
0.39484115	22.7%	93.3%	5	14	1	17
0.441429925	27.3%	93.3%	6	14	1	16
0.443883635	31.8%	93.3%	7	14	1	15
0.537223872	31.8%	86.7%	7	13	2	15
0.573660892	36.4%	86.7%	8	13	2	14
0.587299677	40.9%	86.7%	9	13	2	13
1.141788822	40.9%	80.0%	9	12	3	13
1.288678045	45.5%	80.0%	10	12	3	12
1.497411002	50.0%	80.0%	11	12	3	11
1.504448557	54.5%	80.0%	12	12	3	10
1.553203734	54.5%	73.3%	12	11	4	10
1.697719129	54.5%	66.7%	12	10	5	10
1.740725515	59.1%	66.7%	13	10	5	9
1.789909879	59.1%	60.0%	13	9	6	9
1.800103417	63.6%	60.0%	14	9	6	8
1.890731101	63.6%	53.3%	14	8	7	8
2.089011337	68.2%	53.3%	15	8	7	7
2.450853521	68.2%	46.7%	15	7	8	7
3.183220714	68.2%	40.0%	15	6	9	7
3.601972595	68.2%	33.3%	15	5	10	7
4.117866168	68.2%	26.7%	15	4	11	7
4.834268435	72.7%	26.7%	16	4	11	6
5.638919739	72.7%	20.0%	16	3	12	6
6.10658428	77.3%	20.0%	17	3	12	5
6.841923307	81.8%	20.0%	18	3	12	4
8.231907094	86.4%	20.0%	19	3	12	3
10.42225494	90.9%	20.0%	20	3	12	2
15.5536609	90.9%	13.3%	20	2	13	2
16.22326061	90.9%	6.7%	20	1	14	2
53.13230616	90.9%	0.0%	20	0	15	2
69.60587743	95.5%	0.0%	21	0	15	1

Figure 27B

Test Receiver Operator Characteristic (ROC) curves

M9612_27 by SAMP_GRP

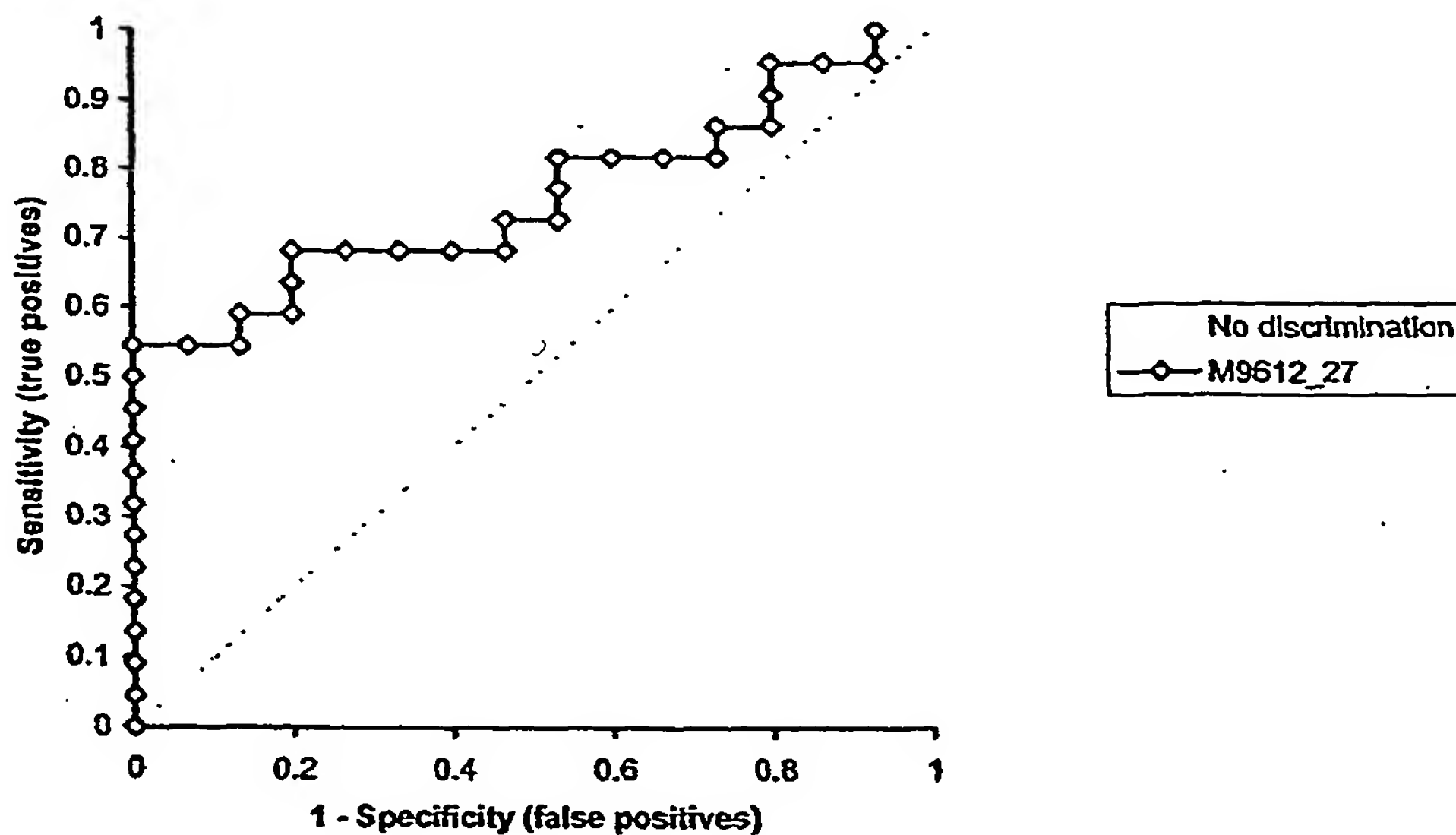
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M9612_27	0.758	0.0789	0.0005	0.603 to 0.912	have lower values



M9612_27 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.242818201	0.0%	100.0%	0	15	0	22

FIGURE 28A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9612_27 by SAMP_GRP			Date		14 August 2002	
Performed by	Benjamin Silverman					
0.758601683	4.5%	100.0%	1	15	0	21
1.180865799	9.1%	100.0%	2	15	0	20
1.274578224	13.6%	100.0%	3	15	0	19
1.483956338	18.2%	100.0%	4	15	0	18
1.493244123	22.7%	100.0%	5	15	0	17
1.555852667	27.3%	100.0%	6	15	0	16
2.105803209	31.8%	100.0%	7	15	0	15
2.369291433	36.4%	100.0%	8	15	0	14
2.40902558	40.9%	100.0%	9	15	0	13
2.861582232	45.5%	100.0%	10	15	0	12
3.208838829	50.0%	100.0%	11	15	0	11
4.314256863	54.5%	100.0%	12	15	0	10
5.123782783	54.5%	93.3%	12	14	1	10
5.206522974	54.5%	86.7%	12	13	2	10
5.392504287	59.1%	86.7%	13	13	2	9
5.627164435	59.1%	80.0%	13	12	3	9
7.347091898	63.6%	80.0%	14	12	3	8
7.614016057	68.2%	80.0%	15	12	3	7
7.780212345	68.2%	73.3%	15	11	4	7
8.066501227	68.2%	66.7%	15	10	5	7
8.189857251	68.2%	60.0%	15	9	6	7
8.879133228	68.2%	53.3%	15	8	7	7
9.452288319	72.7%	53.3%	16	8	7	6
10.02350022	72.7%	46.7%	16	7	8	6
11.09534531	77.3%	46.7%	17	7	8	5
13.60423119	81.8%	46.7%	18	7	8	4
13.97510631	81.8%	40.0%	18	6	9	4
14.24114764	81.8%	33.3%	18	5	10	4
14.30357042	81.8%	26.7%	18	4	11	4
14.66718773	86.4%	26.7%	19	4	11	3
16.79245222	86.4%	20.0%	19	3	12	3
17.49682083	90.9%	20.0%	20	3	12	2
32.76755785	95.5%	20.0%	21	3	12	1
35.34829908	95.5%	13.3%	21	2	13	1
49.72699286	95.5%	6.7%	21	1	14	1
74.09042786	100.0%	6.7%	22	1	14	0

Figure 28B

Test Receiver Operator Characteristic (ROC) curves

M9746_54 by SAMP_GRP

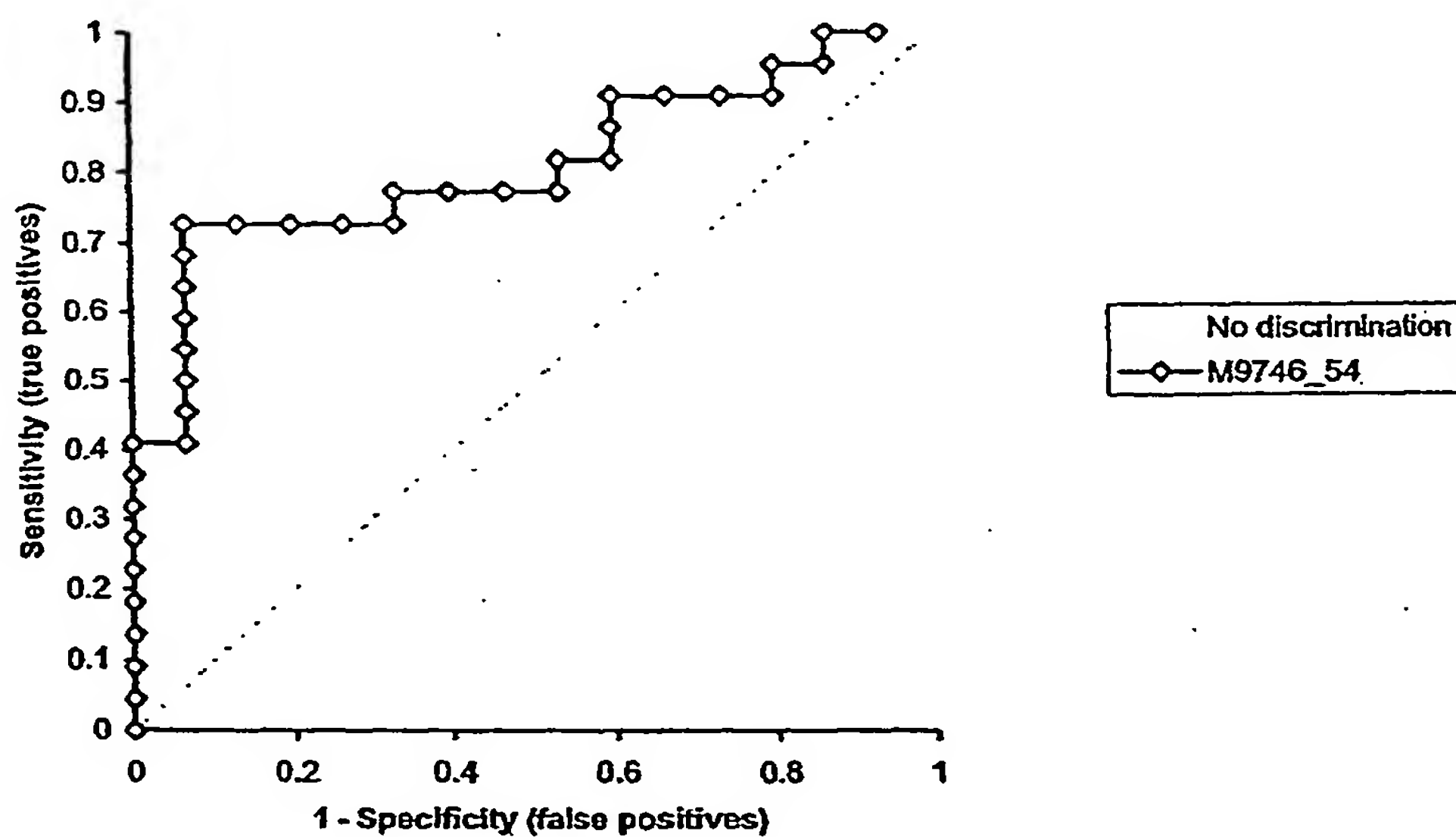
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M9746_54	0.809	0.0718	<0.0001	0.668 to 0.950	have lower values



M9746_54 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.27462008	0.0%	100.0%	0	15	0	22

FIGURE 29A

10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M9746_54 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
0.944941397	4.5%	100.0%	1	15	0	21	
1.429602659	9.1%	100.0%	2	15	0	20	
1.860367717	13.6%	100.0%	3	15	0	19	
2.156058253	18.2%	100.0%	4	15	0	18	
2.163995771	22.7%	100.0%	5	15	0	17	
2.230258934	27.3%	100.0%	6	15	0	16	
2.244471438	31.8%	100.0%	7	15	0	15	
3.928575765	36.4%	100.0%	8	15	0	14	
4.89314159	40.9%	100.0%	9	15	0	13	
5.001978398	40.9%	93.3%	9	14	1	13	
5.395387778	45.5%	93.3%	10	14	1	12	
5.591140256	50.0%	93.3%	11	14	1	11	
5.705310247	54.5%	93.3%	12	14	1	10	
6.346787733	59.1%	93.3%	13	14	1	9	
6.900258793	63.6%	93.3%	14	14	1	8	
9.925793863	68.2%	93.3%	15	14	1	7	
10.99991811	72.7%	93.3%	16	14	1	6	
12.12215213	72.7%	86.7%	16	13	2	6	
12.15934553	72.7%	80.0%	16	12	3	6	
12.53847818	72.7%	73.3%	16	11	4	6	
12.7064395	72.7%	66.7%	16	10	5	6	
13.41035628	77.3%	66.7%	17	10	5	5	
13.44152165	77.3%	60.0%	17	9	6	5	
13.65324412	77.3%	53.3%	17	8	7	5	
14.17991663	77.3%	46.7%	17	7	8	5	
15.57075291	81.8%	46.7%	18	7	8	4	
18.04349193	81.8%	40.0%	18	6	9	4	
22.3977826	86.4%	40.0%	19	6	9	3	
23.32377482	90.9%	40.0%	20	6	9	2	
24.62590135	90.9%	33.3%	20	5	10	2	
24.70430526	90.9%	26.7%	20	4	11	2	
27.58682672	90.9%	20.0%	20	3	12	2	
31.43474846	95.5%	20.0%	21	3	12	1	
33.81750113	95.5%	13.3%	21	2	13	1	
40.01851039	100.0%	13.3%	22	2	13	0	
54.47066069	100.0%	6.7%	22	1	14	0	

Figure 29B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9782_13 by SAMP_GRP

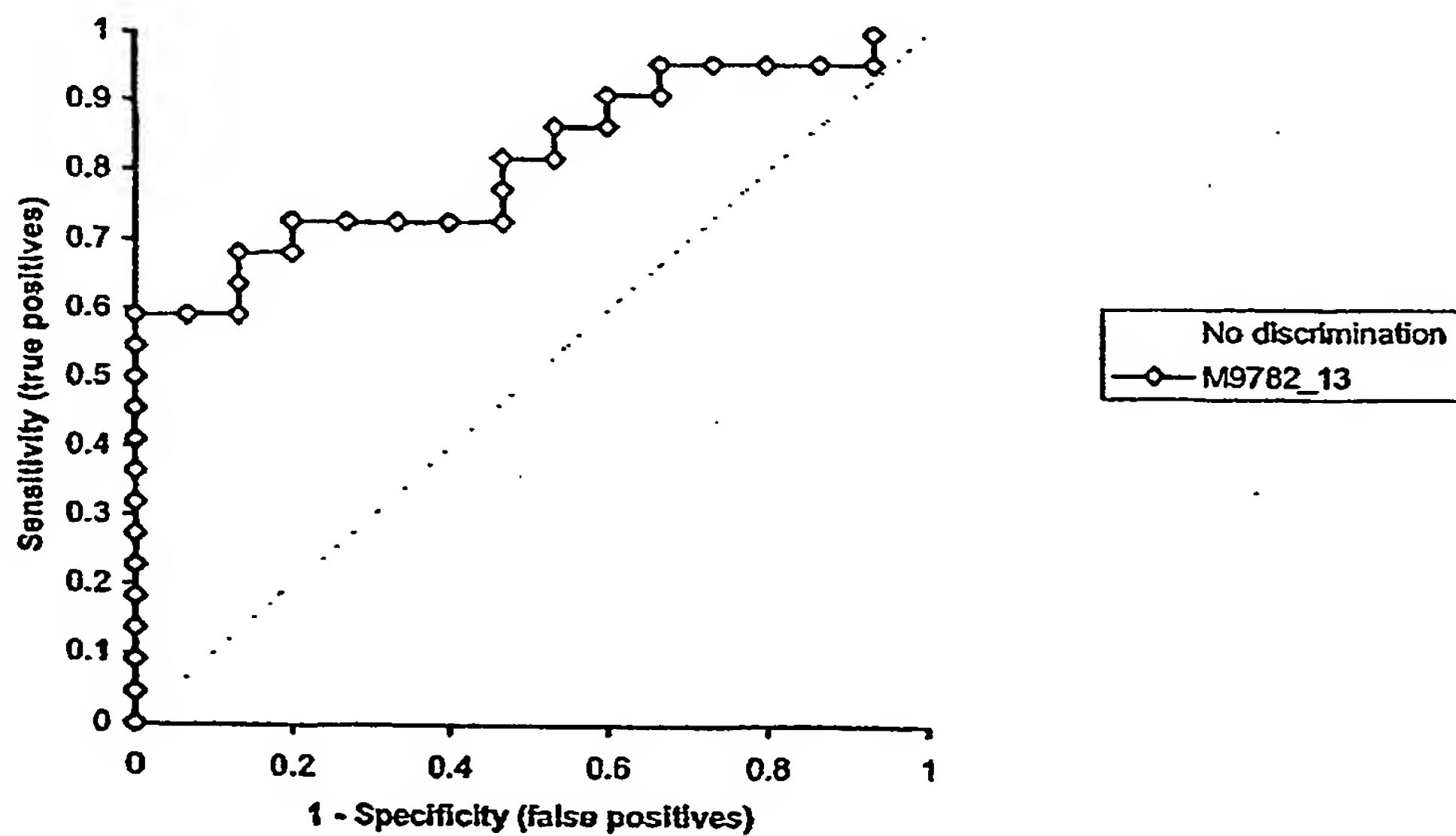
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M9782_13	0.812	0.0699	<0.0001	0.675 to 0.949	have lower values



M9782_13 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.187949677	0.0%	100.0%	0	15	0	22

FIGURE 30A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9782_13 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.311940904	4.5%	100.0%	1	15	0	21
0.320787249	9.1%	100.0%	2	15	0	20
0.588458192	13.6%	100.0%	3	15	0	19
0.827319355	18.2%	100.0%	4	15	0	18
0.964527145	22.7%	100.0%	5	15	0	17
1.303108694	27.3%	100.0%	6	15	0	16
1.440991138	31.8%	100.0%	7	15	0	15
1.911425052	36.4%	100.0%	8	15	0	14
1.977973759	40.9%	100.0%	9	15	0	13
2.704541978	45.5%	100.0%	10	15	0	12
3.18696848	50.0%	100.0%	11	15	0	11
3.264391167	54.5%	100.0%	12	15	0	10
3.649763174	59.1%	100.0%	13	15	0	9
4.050829647	59.1%	93.3%	13	14	1	9
4.367868931	59.1%	86.7%	13	13	2	9
5.033974153	63.6%	86.7%	14	13	2	8
5.632684713	68.2%	86.7%	15	13	2	7
5.735939585	68.2%	80.0%	15	12	3	7
6.576947242	72.7%	80.0%	16	12	3	6
6.700781868	72.7%	73.3%	16	11	4	6
6.825206697	72.7%	66.7%	16	10	5	6
8.182420851	72.7%	60.0%	16	9	6	6
8.312179556	72.7%	53.3%	16	8	7	6
8.461231786	77.3%	53.3%	17	8	7	5
8.604240794	81.8%	53.3%	18	8	7	4
10.6034531	81.8%	46.7%	18	7	8	4
11.69847523	86.4%	46.7%	19	7	8	3
12.95334106	86.4%	40.0%	19	6	9	3
14.37960511	90.9%	40.0%	20	6	9	2
14.55501121	90.9%	33.3%	20	5	10	2
22.8775234	95.5%	33.3%	21	5	10	1
24.59587908	95.5%	26.7%	21	4	11	1
32.89066637	95.5%	20.0%	21	3	12	1
44.04188758	95.5%	13.3%	21	2	13	1
47.67700209	95.5%	6.7%	21	1	14	1
65.79597195	100.0%	6.7%	22	1	14	0

Figure 30B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M9986_39 by SAMP_GRP

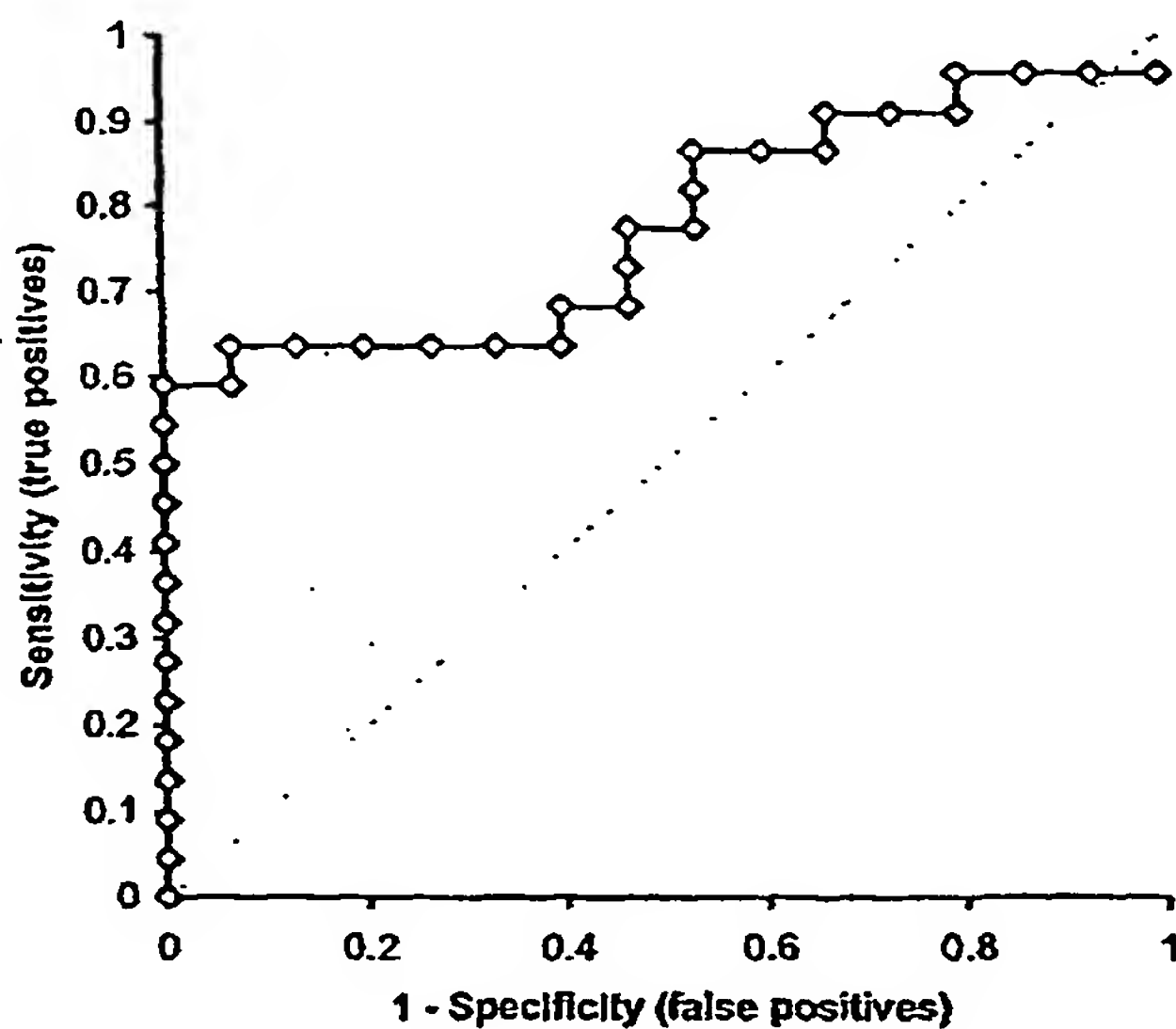
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M9986_39	0.776	0.0767	0.0002	0.625 to 0.926	have lower values



M9986_39 (abnormals below cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.295256429	0.0%	100.0%	0	15	0	22

FIGURE 31A

10/530017

Test	Receiver Operator Characteristic (ROC) curves					
	M9986_39 by SAMP_GRP					
Performed by	Benjamin Silverman				Date	14 August 2002
1.008835146	4.5%	100.0%	1	15	0	21
1.165659121	9.1%	100.0%	2	15	0	20
1.256851909	13.6%	100.0%	3	15	0	19
2.241283084	18.2%	100.0%	4	15	0	18
2.28786077	22.7%	100.0%	5	15	0	17
2.567899944	27.3%	100.0%	6	15	0	16
2.915542456	31.8%	100.0%	7	15	0	15
2.946087861	36.4%	100.0%	8	15	0	14
3.515636808	40.9%	100.0%	9	15	0	13
3.61887364	45.5%	100.0%	10	15	0	12
4.081298473	50.0%	100.0%	11	15	0	11
4.589735775	54.5%	100.0%	12	15	0	10
5.266312315	59.1%	100.0%	13	15	0	9
7.217859829	59.1%	93.3%	13	14	1	9
8.318176705	63.6%	93.3%	14	14	1	8
8.878907369	63.6%	86.7%	14	13	2	8
9.456901691	63.6%	80.0%	14	12	3	8
10.28999424	63.6%	73.3%	14	11	4	8
14.37846263	63.6%	66.7%	14	10	5	8
16.99313275	63.6%	60.0%	14	9	6	8
18.82439633	68.2%	60.0%	15	9	6	7
19.58359542	68.2%	53.3%	15	8	7	7
20.13834584	72.7%	53.3%	16	8	7	6
22.48639367	77.3%	53.3%	17	8	7	5
23.08411608	77.3%	46.7%	17	7	8	5
25.85315832	81.8%	46.7%	18	7	8	4
29.21510714	86.4%	46.7%	19	7	8	3
30.74984161	86.4%	40.0%	19	6	9	3
32.56932974	86.4%	33.3%	19	5	10	3
37.00175626	90.9%	33.3%	20	5	10	2
40.65070508	90.9%	26.7%	20	4	11	2
46.36510251	90.9%	20.0%	20	3	12	2
59.92837427	95.5%	20.0%	21	3	12	1
60.68808134	95.5%	13.3%	21	2	13	1
97.93584835	95.5%	6.7%	21	1	14	1
104.5984281	95.5%	0.0%	21	0	15	1

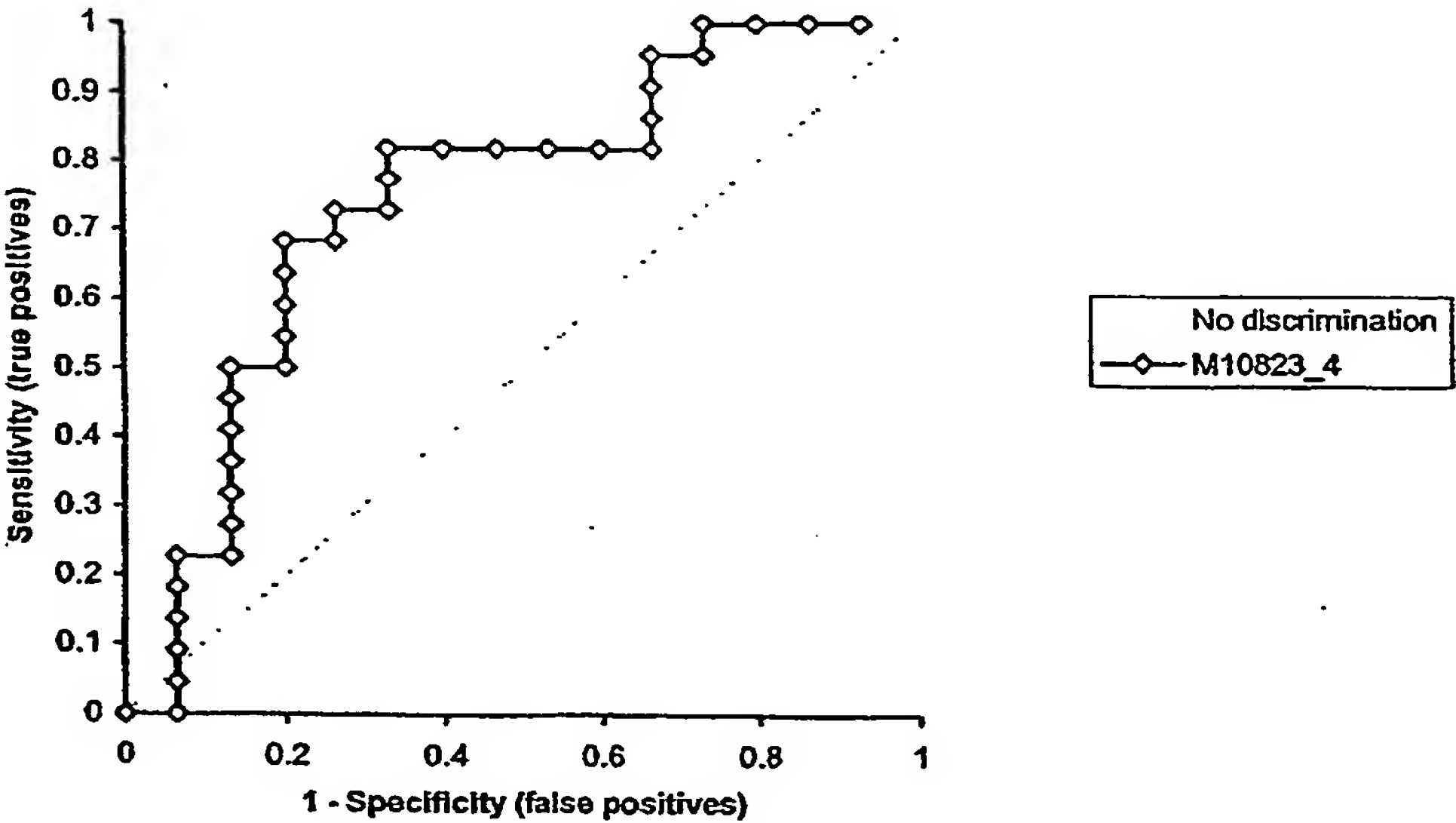
Figure 31B

10/530017

Test	Receiver Operator Characteristic (ROC) curves		
	M10823_4 by SAMP_GRP		
Performed by	Benjamin Silverman	Date	14 August 2002

n	37
<hr/>	
SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M10823_4	0.745	0.0879	0.0026	0.573 to 0.918	have higher values



M10823_4						
(abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.523085472	100.0%	6.7%	22	1	14	0

FIGURE 32A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M10823_4 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.671006585	100.0%	13.3%	22	2	13	0
0.673951205	100.0%	20.0%	22	3	12	0
0.85034147	100.0%	26.7%	22	4	11	0
1.091235144	95.5%	26.7%	21	4	11	1
1.499560539	95.5%	33.3%	21	5	10	1
1.6038729	90.9%	33.3%	20	5	10	2
1.689901778	86.4%	33.3%	19	5	10	3
1.873136627	81.8%	33.3%	18	5	10	4
1.873452486	81.8%	40.0%	18	6	9	4
1.911010945	81.8%	46.7%	18	7	8	4
2.024488057	81.8%	53.3%	18	8	7	4
2.566194201	81.8%	60.0%	18	9	6	4
2.828797509	81.8%	66.7%	18	10	5	4
2.900653046	77.3%	66.7%	17	10	5	5
2.924282124	72.7%	66.7%	16	10	5	6
3.48601262	72.7%	73.3%	16	11	4	6
3.508487988	68.2%	73.3%	15	11	4	7
4.080371763	68.2%	80.0%	15	12	3	7
4.336801503	63.6%	80.0%	14	12	3	8
4.685772237	59.1%	80.0%	13	12	3	9
5.846072901	54.5%	80.0%	12	12	3	10
5.927676181	50.0%	80.0%	11	12	3	11
6.051455083	50.0%	86.7%	11	13	2	11
6.178395098	45.5%	86.7%	10	13	2	12
6.452067205	40.9%	86.7%	9	13	2	13
6.802498183	36.4%	86.7%	8	13	2	14
8.451155445	31.8%	86.7%	7	13	2	15
8.46425216	27.3%	86.7%	6	13	2	16
11.36753199	22.7%	86.7%	5	13	2	17
15.67369003	22.7%	93.3%	5	14	1	17
19.34606204	18.2%	93.3%	4	14	1	18
20.10344319	13.6%	93.3%	3	14	1	19
20.51485771	9.1%	93.3%	2	14	1	20
32.081559	4.5%	93.3%	1	14	1	21
44.91333527	0.0%	93.3%	0	14	1	22
54.23581573	0.0%	100.0%	0	15	0	22

Figure 32B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M10860_5 by SAMP_GRP

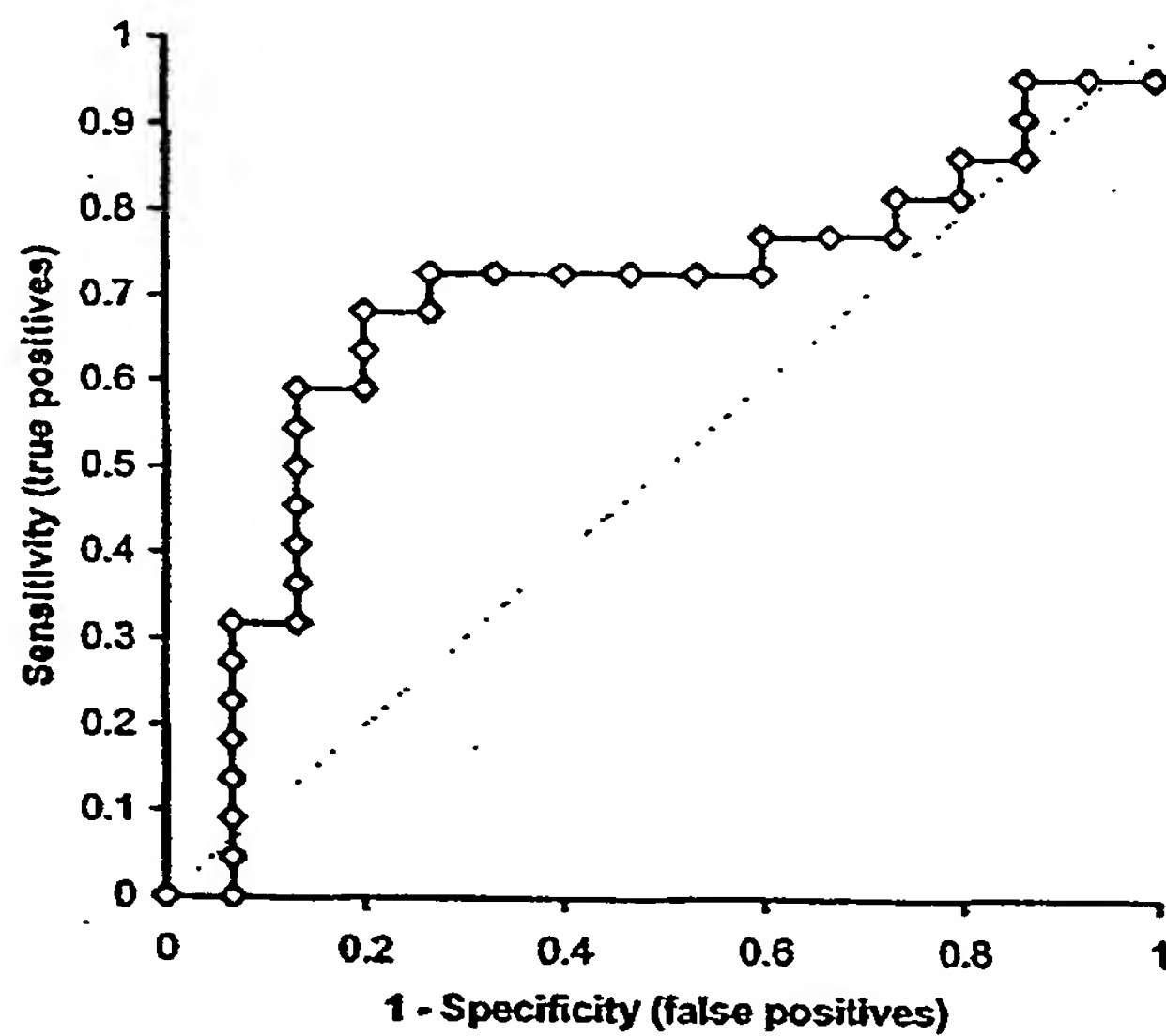
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M10860_5	0.691	0.0920	0.0190	0.511 to 0.871	have higher values



M10860_5 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.625449592	95.5%	0.0%	21	0	15	1

FIGURE 33 A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M10860_5 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.649659093	95.5%	6.7%	21	1	14	1
0.75660742	95.5%	13.3%	21	2	13	1
0.827850575	90.9%	13.3%	20	2	13	2
0.874557025	86.4%	13.3%	19	2	13	3
0.942458079	86.4%	20.0%	19	3	12	3
1.299508596	81.8%	20.0%	18	3	12	4
1.477528139	81.8%	26.7%	18	4	11	4
1.741733474	77.3%	26.7%	17	4	11	5
2.442650232	77.3%	33.3%	17	5	10	5
2.49969861	77.3%	40.0%	17	6	9	5
2.854472279	72.7%	40.0%	16	6	9	6
3.637781801	72.7%	46.7%	16	7	8	6
4.026034745	72.7%	53.3%	16	8	7	6
4.373739534	72.7%	60.0%	16	9	6	6
4.412232967	72.7%	66.7%	16	10	5	6
5.243094923	72.7%	73.3%	16	11	4	6
5.879200077	68.2%	73.3%	15	11	4	7
7.832574741	68.2%	80.0%	15	12	3	7
7.983245257	63.6%	80.0%	14	12	3	8
8.502650675	59.1%	80.0%	13	12	3	9
9.277844369	59.1%	86.7%	13	13	2	9
9.98032986	54.5%	86.7%	12	13	2	10
10.446093	50.0%	86.7%	11	13	2	11
11.40028173	45.5%	86.7%	10	13	2	12
11.96785354	40.9%	86.7%	9	13	2	13
13.7323821	36.4%	86.7%	8	13	2	14
13.92963359	31.8%	86.7%	7	13	2	15
18.38409613	31.8%	93.3%	7	14	1	15
21.12109901	27.3%	93.3%	6	14	1	16
23.08340021	22.7%	93.3%	5	14	1	17
25.98323228	18.2%	93.3%	4	14	1	18
28.89121952	13.6%	93.3%	3	14	1	19
55.22611991	9.1%	93.3%	2	14	1	20
131.6364922	4.5%	93.3%	1	14	1	21
194.5375406	0.0%	93.3%	0	14	1	22
251.7598007	0.0%	100.0%	0	15	0	22

Figure 33B

Test Receiver Operator Characteristic (ROC) curves

M11298_6 by SAMP_GRP

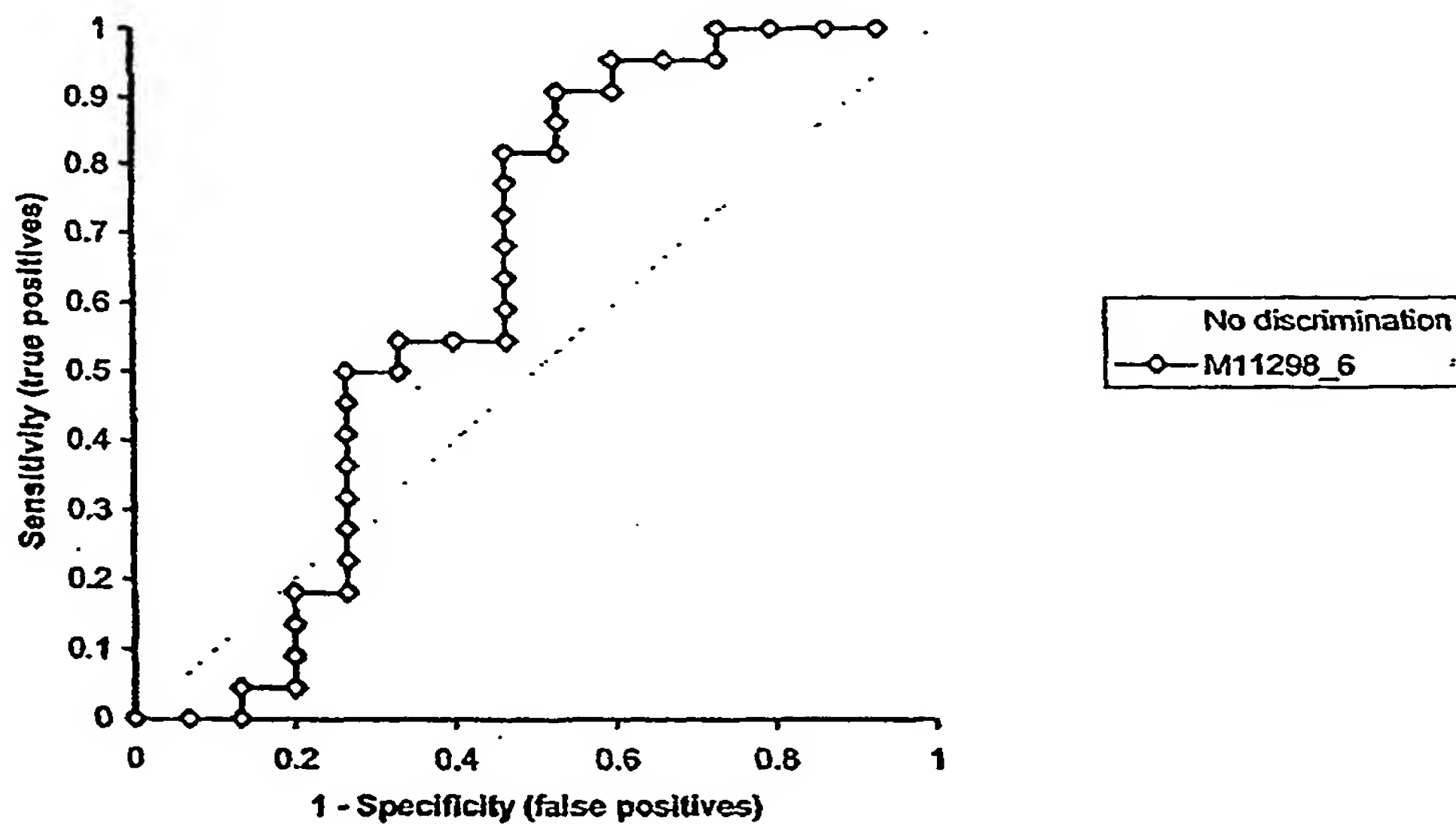
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M11298_6	0.630	0.1058	0.1091	0.423 to 0.838	have higher values



M11298_6 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.069735482	100.0%	6.7%	22	1	14	0

FIGURE 34A

10/530017

Test	Receiver Operator Characteristic (ROC) curves					
	M11298_6 by SAMP_GRP					
Performed by	Benjamin Silverman				Date	14 August 2002
0.149582527	100.0%	13.3%	22	2	13	0
0.223497018	100.0%	20.0%	22	3	12	0
0.288031269	100.0%	26.7%	22	4	11	0
0.392039963	95.5%	26.7%	21	4	11	1
0.482206326	95.5%	33.3%	21	5	10	1
0.493313078	95.5%	40.0%	21	6	9	1
0.567621858	90.9%	40.0%	20	6	9	2
0.581373026	90.9%	46.7%	20	7	8	2
0.68372028	86.4%	46.7%	19	7	8	3
0.705154358	81.8%	46.7%	18	7	8	4
1.022125197	81.8%	53.3%	18	8	7	4
1.396624672	77.3%	53.3%	17	8	7	5
1.626040888	72.7%	53.3%	16	8	7	6
1.75309758	68.2%	53.3%	15	8	7	7
1.78154363	63.6%	53.3%	14	8	7	8
1.907771234	59.1%	53.3%	13	8	7	9
1.971133683	54.5%	53.3%	12	8	7	10
2.262083652	54.5%	60.0%	12	9	6	10
2.529965408	54.5%	66.7%	12	10	5	10
2.604054361	50.0%	66.7%	11	10	5	11
3.647733064	50.0%	73.3%	11	11	4	11
4.380208717	45.5%	73.3%	10	11	4	12
6.698383023	40.9%	73.3%	9	11	4	13
6.760494031	36.4%	73.3%	8	11	4	14
7.443587208	31.8%	73.3%	7	11	4	15
8.262329904	27.3%	73.3%	6	11	4	16
9.003081752	22.7%	73.3%	5	11	4	17
11.5832935	18.2%	73.3%	4	11	4	18
11.61282227	18.2%	80.0%	4	12	3	18
18.74142022	13.6%	80.0%	3	12	3	19
19.38284104	9.1%	80.0%	2	12	3	20
24.23295792	4.5%	80.0%	1	12	3	21
26.16048385	4.5%	86.7%	1	13	2	21
26.36644348	0.0%	86.7%	0	13	2	22
32.88581786	0.0%	93.3%	0	14	1	22
39.19350134	0.0%	100.0%	0	15	0	22

Figure 34E

10/530017

Test Receiver Operator Characteristic (ROC) curves

M13386_4 by SAMP_GRP

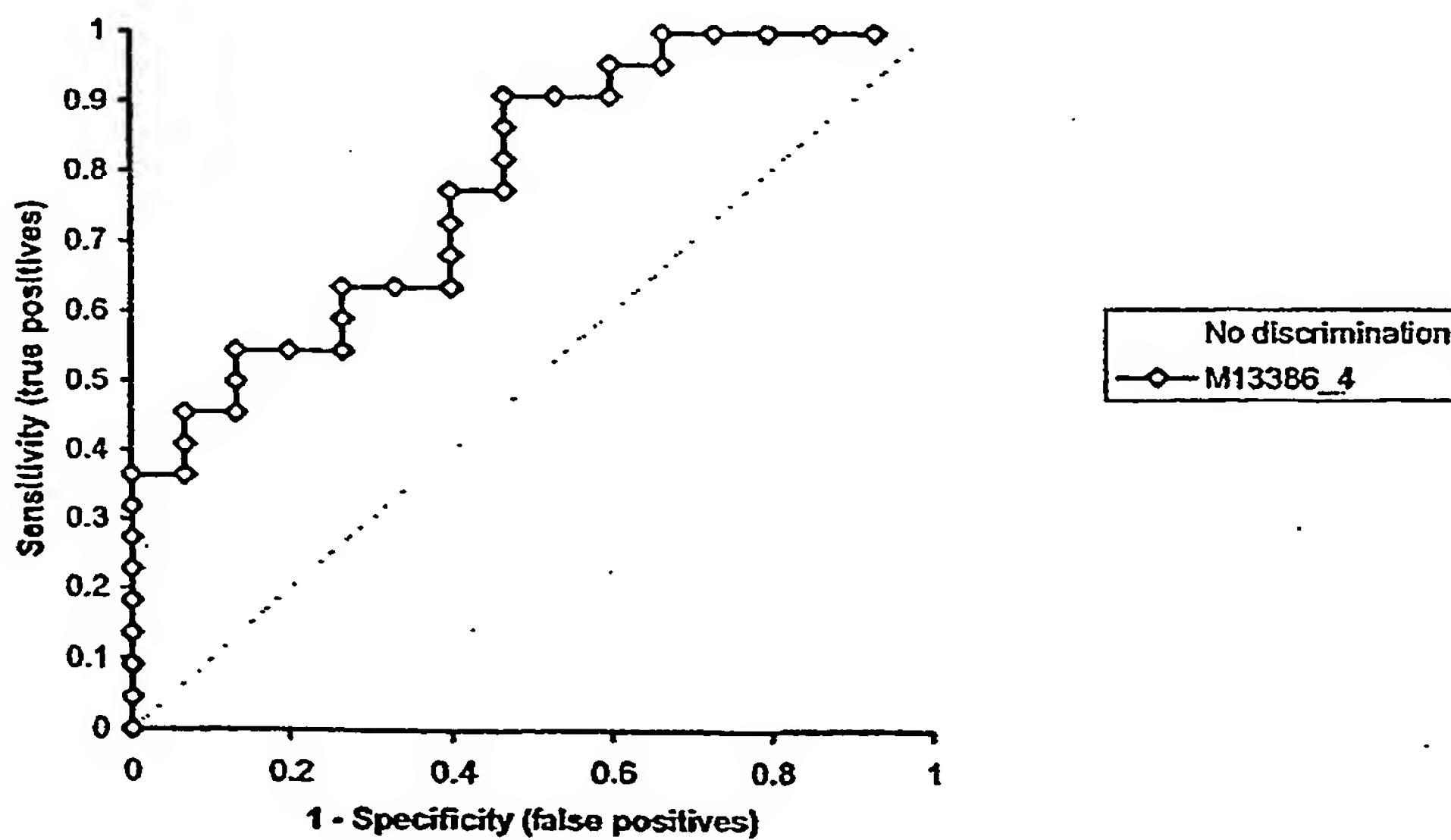
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M13386_4	0.782	0.0758	<0.0001	0.634 to 0.930	have higher values



M13386_4 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.09381789	100.0%	6.7%	22	1	14	0

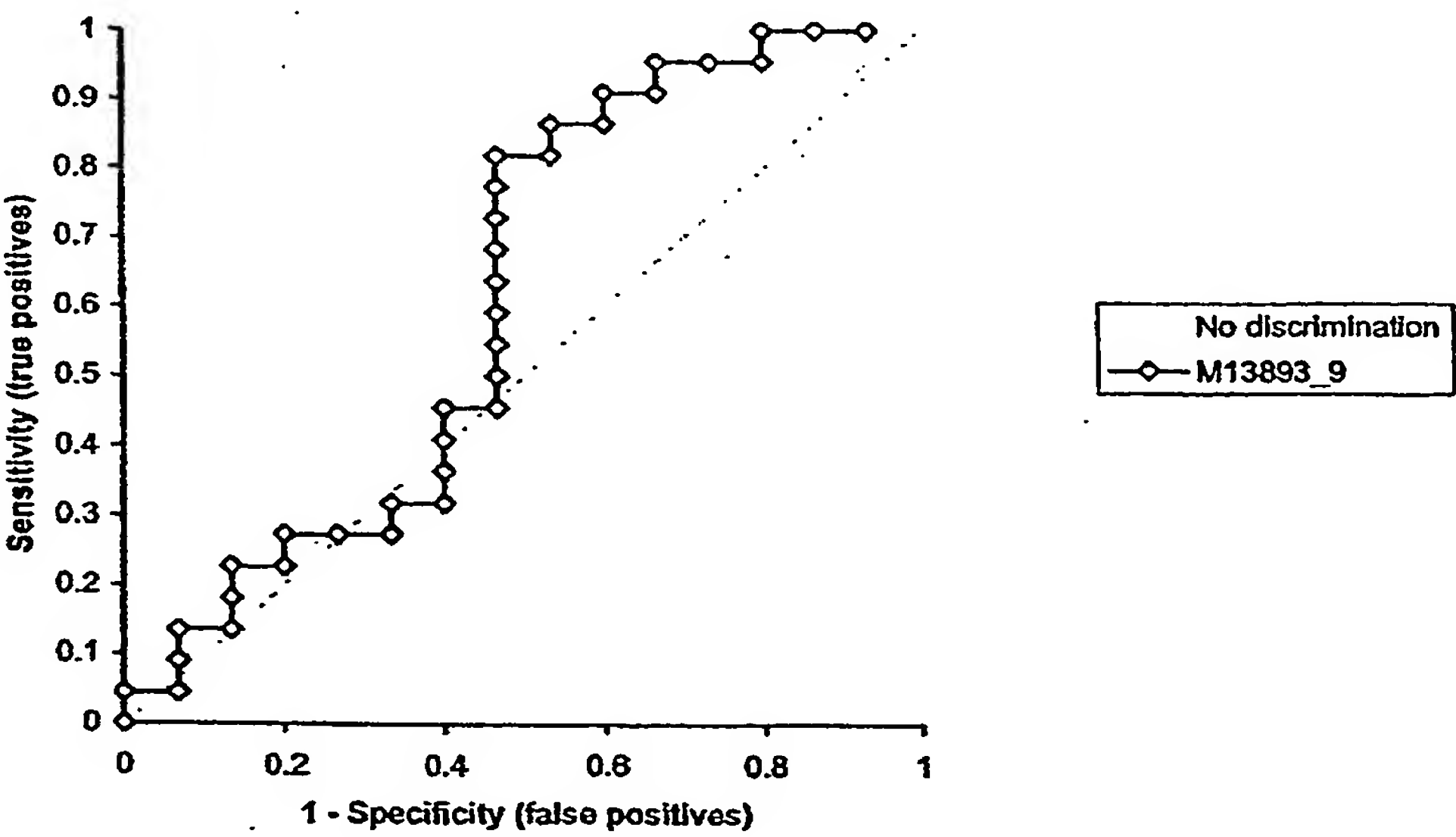
FIGURE 35A

10/530017

Test	Receiver Operator Characteristic (ROC) curves					
	M13386_4 by SAMP_GRP					
Performed by	Benjamin Silverman				Date	14 August 2002
0.124670465	100.0%	13.3%	22	2	13	0
0.343871165	100.0%	20.0%	22	3	12	0
0.411768114	100.0%	26.7%	22	4	11	0
0.447501692	100.0%	33.3%	22	5	10	0
0.501984192	95.5%	33.3%	21	5	10	1
0.506229615	95.5%	40.0%	21	6	9	1
0.670561066	90.9%	40.0%	20	6	9	2
0.716216281	90.9%	46.7%	20	7	8	2
0.795109612	90.9%	53.3%	20	8	7	2
0.97373317	86.4%	53.3%	19	8	7	3
1.287597984	81.8%	53.3%	18	8	7	4
1.321319393	77.3%	53.3%	17	8	7	5
1.327346283	77.3%	60.0%	17	9	6	5
1.342282679	72.7%	60.0%	16	9	6	6
1.438354391	68.2%	60.0%	15	9	6	7
1.921057278	63.6%	60.0%	14	9	6	8
2.235552923	63.6%	66.7%	14	10	5	8
2.377677685	63.6%	73.3%	14	11	4	8
2.448569037	59.1%	73.3%	13	11	4	9
2.521570151	54.5%	73.3%	12	11	4	10
2.534695052	54.5%	80.0%	12	12	3	10
2.557062659	54.5%	86.7%	12	13	2	10
2.563776641	50.0%	86.7%	11	13	2	11
2.76281867	45.5%	86.7%	10	13	2	12
2.822205414	45.5%	93.3%	10	14	1	12
2.942739621	40.9%	93.3%	9	14	1	13
3.176759363	36.4%	93.3%	8	14	1	14
3.56705507	36.4%	100.0%	8	15	0	14
3.697507784	31.8%	100.0%	7	15	0	15
4.162756708	27.3%	100.0%	6	15	0	16
7.154094102	22.7%	100.0%	5	15	0	17
7.264484986	18.2%	100.0%	4	15	0	18
10.74768511	13.6%	100.0%	3	15	0	19
12.02456743	9.1%	100.0%	2	15	0	20
24.85498921	4.5%	100.0%	1	15	0	21
35.76220463	0.0%	100.0%	0	15	0	22

Figure 35

Test	Receiver Operator Characteristic (ROC) curves				
	M13893_9 by SAMP_GRP				
Performed by	Benjamin Silverman			Date	14 August 2002
n	37				
SAMP_GRP	n				
0	15				
1	22				
Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M13893_9	0.615	0.1028	0.1313	0.414 to 0.817	have higher values



M13893_9 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.628842989	100.0%	6.7%	22	1	14	0

FIGURE 36 A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M13893_9 by SAMP_GRP

Performed by Benjamin Silverman

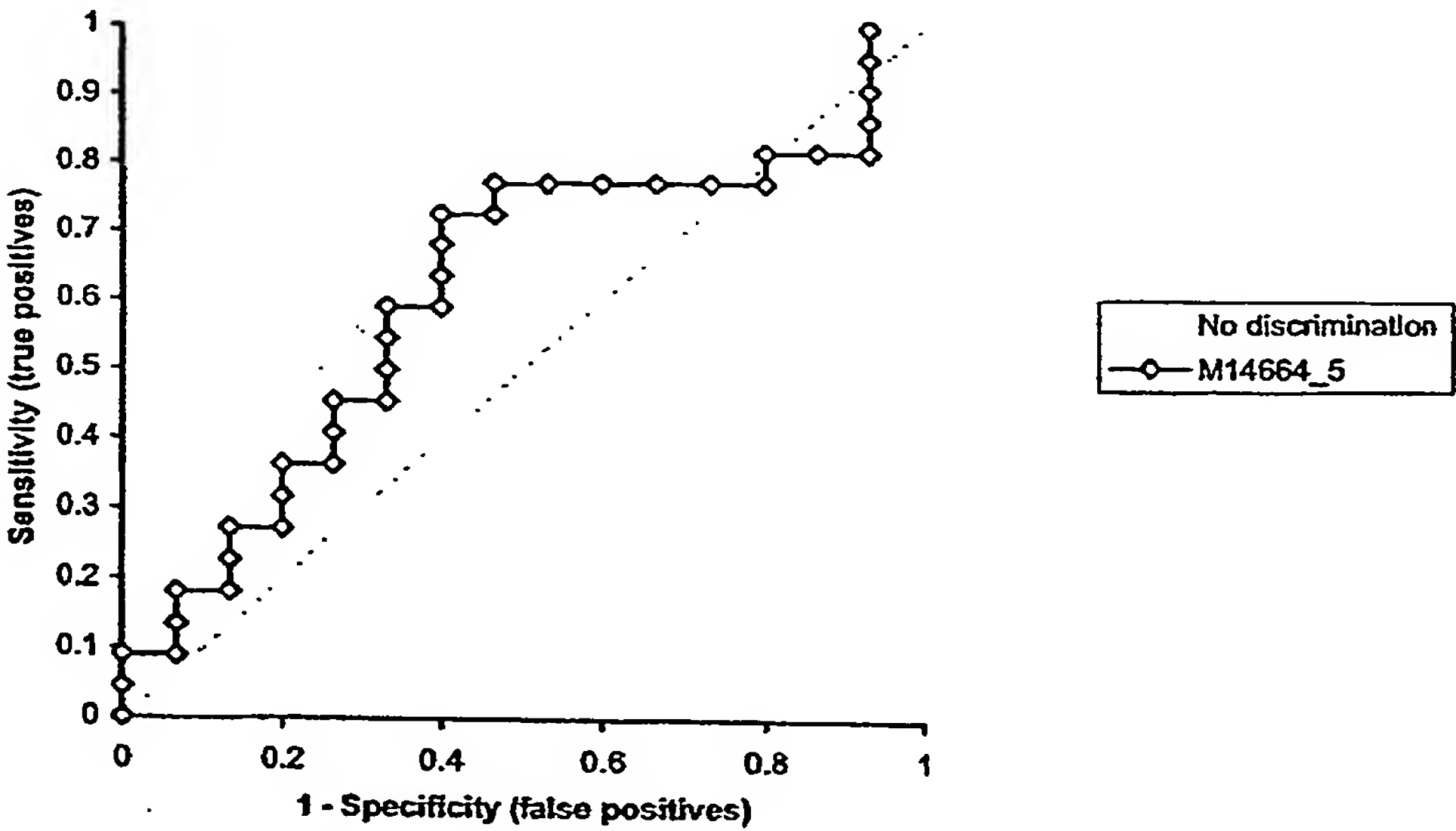
Date

14 August 2002

0.743225364	100.0%	13.3%	22	2	13	0
1.030426576	100.0%	20.0%	22	3	12	0
1.380127971	95.5%	20.0%	21	3	12	1
1.426474539	95.5%	26.7%	21	4	11	1
2.152972601	95.5%	33.3%	21	5	10	1
2.608056213	90.9%	33.3%	20	5	10	2
2.630865033	90.9%	40.0%	20	6	9	2
2.659269738	86.4%	40.0%	19	6	9	3
3.259037701	86.4%	46.7%	19	7	8	3
3.270230475	81.8%	46.7%	18	7	8	4
3.291970055	81.8%	53.3%	18	8	7	4
3.900053221	77.3%	53.3%	17	8	7	5
4.191044639	72.7%	53.3%	16	8	7	6
6.145344315	68.2%	53.3%	15	8	7	7
6.644038085	63.6%	53.3%	14	8	7	8
8.02492889	59.1%	53.3%	13	8	7	9
8.320312383	54.5%	53.3%	12	8	7	10
8.499048941	50.0%	53.3%	11	8	7	11
8.831927477	45.5%	53.3%	10	8	7	12
9.856140439	45.5%	60.0%	10	9	6	12
10.62746905	40.9%	60.0%	9	9	6	13
10.82610414	36.4%	60.0%	8	9	6	14
12.54454288	31.8%	60.0%	7	9	6	15
13.90470058	31.8%	66.7%	7	10	5	15
14.27519579	27.3%	66.7%	6	10	5	16
14.81217871	27.3%	73.3%	6	11	4	16
15.05367835	27.3%	80.0%	6	12	3	16
15.93348534	22.7%	80.0%	5	12	3	17
17.30998863	22.7%	86.7%	5	13	2	17
21.0557198	18.2%	86.7%	4	13	2	18
21.90739293	13.6%	86.7%	3	13	2	19
22.91996482	13.6%	93.3%	3	14	1	19
27.95243119	9.1%	93.3%	2	14	1	20
29.69045585	4.5%	93.3%	1	14	1	21
36.34488613	4.5%	100.0%	1	15	0	21
127.7527799	0.0%	100.0%	0	15	0	22

Figure 36B

Test		Receiver Operator Characteristic (ROC) curves			
		M14664_5 by SAMP_GRP			
Performed by		Benjamin Silverman		Date	14 August 2002
n		37			
SAMP_GRP		n			
0		15			
1		22			
Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M14664_5	0.612	0.0959	0.1211	0.424 to 0.800	have higher values



M14664_5	Sensitivity	Specificity	TP	TN	FP	FN
(abnormals above cut-off)						
0.061220273	100.0%	6.7%	22	1	14	0

FIGURE 37A

74/99

10/530017

Test Receiver Operator Characteristic (ROC) curves

M14664_5 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.141560818	95.5%	6.7%	21	1	14	1
0.420364231	90.9%	6.7%	20	1	14	2
0.460694086	86.4%	6.7%	19	1	14	3
0.651725392	81.8%	6.7%	18	1	14	4
0.669942947	81.8%	13.3%	18	2	13	4
0.676613432	81.8%	20.0%	18	3	12	4
0.716768642	77.3%	20.0%	17	3	12	5
0.831765072	77.3%	26.7%	17	4	11	5
0.86823056	77.3%	33.3%	17	5	10	5
0.8845323	77.3%	40.0%	17	6	9	5
1.170116981	77.3%	46.7%	17	7	8	5
1.213470147	77.3%	53.3%	17	8	7	5
1.220792267	72.7%	53.3%	16	8	7	6
1.237617785	72.7%	60.0%	16	9	6	6
1.348864013	68.2%	60.0%	15	9	6	7
1.48726478	63.6%	60.0%	14	9	6	8
1.531760922	59.1%	60.0%	13	9	6	9
1.586845037	59.1%	66.7%	13	10	5	9
1.666566621	54.5%	66.7%	12	10	5	10
1.724981193	50.0%	66.7%	11	10	5	11
3.302147733	45.5%	66.7%	10	10	5	12
3.486304719	45.5%	73.3%	10	11	4	12
3.551218748	40.9%	73.3%	9	11	4	13
3.916000499	36.4%	73.3%	8	11	4	14
4.994468705	36.4%	80.0%	8	12	3	14
7.660385297	31.8%	80.0%	7	12	3	15
8.303404038	27.3%	80.0%	6	12	3	16
8.332740901	27.3%	86.7%	6	13	2	16
10.53190359	22.7%	86.7%	5	13	2	17
11.0878473	18.2%	86.7%	4	13	2	18
14.9303935	18.2%	93.3%	4	14	1	18
20.5759742	13.6%	93.3%	3	14	1	19
21.51370471	9.1%	93.3%	2	14	1	20
30.15332726	9.1%	100.0%	2	15	0	20
56.92785582	4.5%	100.0%	1	15	0	21
166.0183046	0.0%	100.0%	0	15	0	22

Figure 310

10/530017

Test Receiver Operator Characteristic (ROC) curves

M14786_8 by SAMP_GRP

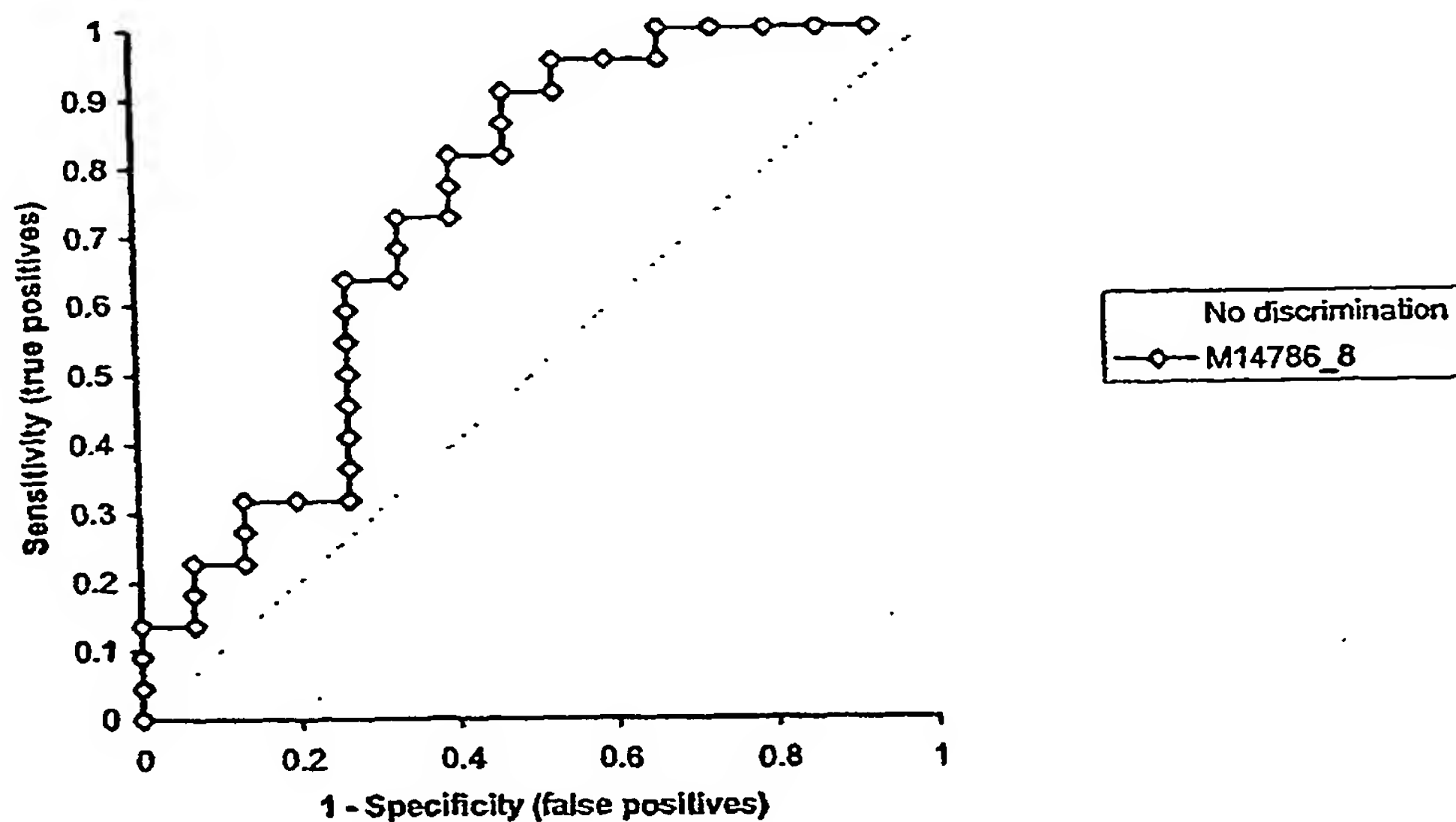
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M14786_8	0.733	0.0900	0.0048	0.557 to 0.910	have higher values



M14786_8 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.022136636	100.0%	6.7%	22	1	14	0

FIGURE 38 A

10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M14786_8 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
0.023475635	100.0%	13.3%	22	2	13	0	
0.179128407	100.0%	20.0%	22	3	12	0	
0.267044214	100.0%	26.7%	22	4	11	0	
0.439943972	100.0%	33.3%	22	5	10	0	
0.747059995	95.5%	33.3%	21	5	10	1	
0.803327362	95.5%	40.0%	21	6	9	1	
0.944758506	95.5%	46.7%	21	7	8	1	
1.088580369	90.9%	46.7%	20	7	8	2	
1.16040567	90.9%	53.3%	20	8	7	2	
1.232976867	86.4%	53.3%	19	8	7	3	
1.328282419	81.8%	53.3%	18	8	7	4	
1.737456748	81.8%	60.0%	18	9	6	4	
1.862991377	77.3%	60.0%	17	9	6	5	
2.618800454	72.7%	60.0%	16	9	6	6	
3.190489507	72.7%	66.7%	16	10	5	6	
3.593950342	68.2%	66.7%	15	10	5	7	
3.992662117	63.6%	66.7%	14	10	5	8	
4.292351631	63.6%	73.3%	14	11	4	8	
5.173824392	59.1%	73.3%	13	11	4	9	
5.435998972	54.5%	73.3%	12	11	4	10	
6.130557824	50.0%	73.3%	11	11	4	11	
6.430648786	45.5%	73.3%	10	11	4	12	
6.804374645	40.9%	73.3%	9	11	4	13	
6.894913459	36.4%	73.3%	8	11	4	14	
7.090966562	31.8%	73.3%	7	11	4	15	
7.664042534	31.8%	80.0%	7	12	3	15	
7.846086851	31.8%	86.7%	7	13	2	15	
9.148478696	27.3%	86.7%	6	13	2	16	
11.37402216	22.7%	86.7%	5	13	2	17	
12.34702758	22.7%	93.3%	5	14	1	17	
17.16718737	18.2%	93.3%	4	14	1	18	
20.98234151	13.6%	93.3%	3	14	1	19	
32.06067547	13.6%	100.0%	3	15	0	19	
35.35146295	9.1%	100.0%	2	15	0	20	
42.47069795	4.5%	100.0%	1	15	0	21	
281.2400752	0.0%	100.0%	0	15	0	22	

Figure 38e

77/99

10/530017

Test Receiver Operator Characteristic (ROC) curves

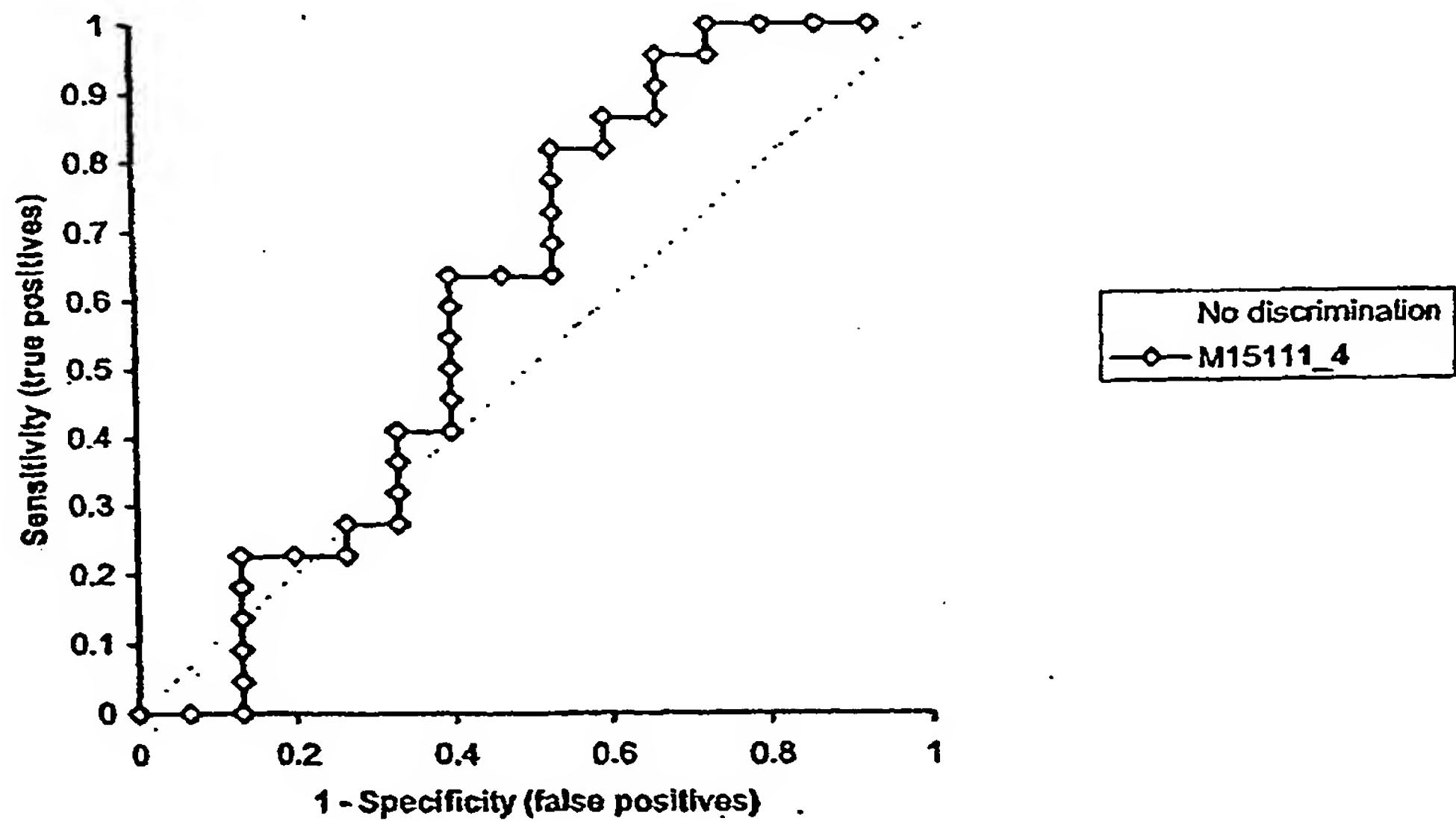
M15111_4 by SAMP_GRP
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M15111_4	0.603	0.1038	0.1604	0.400 to 0.806	have higher values



M15111_4 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.129346634	100.0%	6.7%	22	1	14	0

FIGURE 39A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M15111_4 by SAMP_GRP

Performed by Benjamin Silverman

Date 14 August 2002

-0.082272482	100.0%	13.3%	22	2	13	0
-0.051847397	100.0%	20.0%	22	3	12	0
0.083955483	100.0%	26.7%	22	4	11	0
0.103130253	95.5%	26.7%	21	4	11	1
0.156015035	95.5%	33.3%	21	5	10	1
0.24131824	90.9%	33.3%	20	5	10	2
0.30192565	86.4%	33.3%	19	5	10	3
0.357009516	86.4%	40.0%	19	6	9	3
0.418122078	81.8%	40.0%	18	6	9	4
0.501114979	81.8%	46.7%	18	7	8	4
0.506992262	77.3%	46.7%	17	7	8	5
0.591501	72.7%	46.7%	16	7	8	6
0.625650143	68.2%	46.7%	15	7	8	7
0.626384321	63.6%	46.7%	14	7	8	8
0.632164126	63.6%	53.3%	14	8	7	8
0.63531719	63.6%	60.0%	14	9	6	8
0.645259109	59.1%	60.0%	13	9	6	9
0.678909306	54.5%	60.0%	12	9	6	10
0.840789629	50.0%	60.0%	11	9	6	11
0.864326107	45.5%	60.0%	10	9	6	12
0.961140158	40.9%	60.0%	9	9	6	13
1.035335892	40.9%	66.7%	9	10	5	13
1.36632823	36.4%	66.7%	8	10	5	14
1.380299287	31.8%	66.7%	7	10	5	15
1.803915729	27.3%	66.7%	6	10	5	16
1.918985561	27.3%	73.3%	6	11	4	16
1.959011122	22.7%	73.3%	5	11	4	17
2.266327269	22.7%	80.0%	5	12	3	17
2.75618663	22.7%	86.7%	5	13	2	17
3.050300348	18.2%	86.7%	4	13	2	18
4.376056415	13.6%	86.7%	3	13	2	19
4.817121905	9.1%	86.7%	2	13	2	20
7.363790965	4.5%	86.7%	1	13	2	21
9.744086366	0.0%	86.7%	0	13	2	22
39.88240945	0.0%	93.3%	0	14	1	22
161.5535104	0.0%	100.0%	0	15	0	22

Figure 39B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M15236_2 by SAMP_GRP

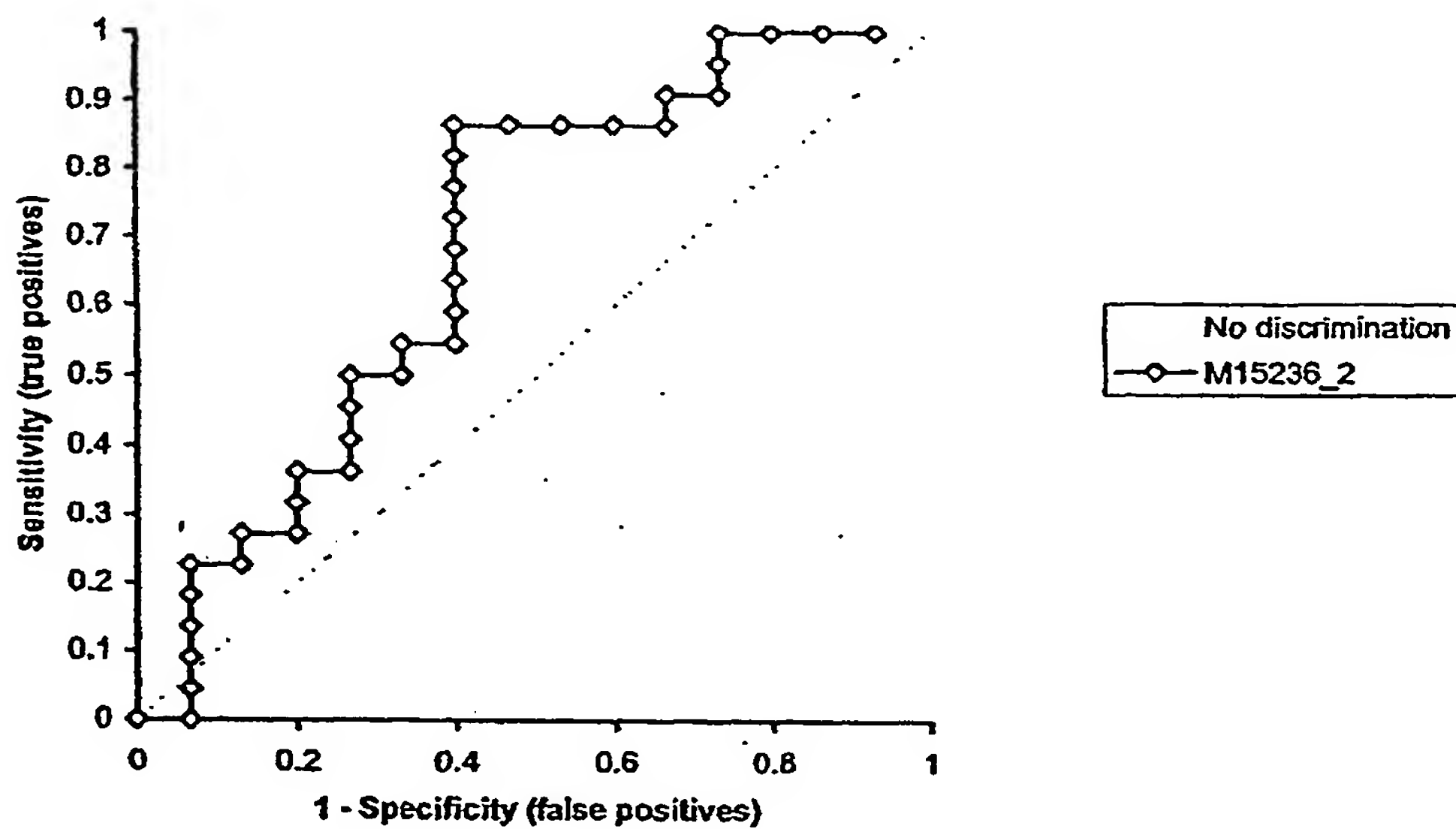
Performed by Benjamin Silverman

Date 16 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M15236_2	0.685	0.0954	0.0263	0.498 to 0.872	have higher values



M15236_2 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.177481002	100.0%	6.7%	22	1	14	0

FIGURE 40A

10/530017

Test Receiver Operator Characteristic (ROC) curves

		M15236_2 by SAMP_GRP					
Performed by	Benjamin Silverman				Date	16 August 2002	
0.26932092	100.0%	13.3%	22	2	13	0	
0.501614485	100.0%	20.0%	22	3	12	0	
0.656769452	100.0%	26.7%	22	4	11	0	
0.719916699	95.5%	26.7%	21	4	11	1	
0.807504736	90.9%	26.7%	20	4	11	2	
0.983183733	90.9%	33.3%	20	5	10	2	
1.046305243	86.4%	33.3%	19	5	10	3	
1.276111699	86.4%	40.0%	19	6	9	3	
1.471614269	86.4%	46.7%	19	7	8	3	
1.504545069	86.4%	53.3%	19	8	7	3	
1.561579588	86.4%	60.0%	19	9	6	3	
1.861941735	81.8%	60.0%	18	9	6	4	
2.005918691	77.3%	60.0%	17	9	6	5	
2.076209404	72.7%	60.0%	16	9	6	6	
2.239171671	68.2%	60.0%	15	9	6	7	
2.502252869	63.6%	60.0%	14	9	6	8	
2.710895729	59.1%	60.0%	13	9	6	9	
3.537996275	54.5%	60.0%	12	9	6	10	
3.8680481	54.5%	66.7%	12	10	5	10	
4.382965751	50.0%	66.7%	11	10	5	11	
4.513363682	50.0%	73.3%	11	11	4	11	
4.518159572	45.5%	73.3%	10	11	4	12	
5.011155209	40.9%	73.3%	9	11	4	13	
5.245641846	36.4%	73.3%	8	11	4	14	
5.648417793	36.4%	80.0%	8	12	3	14	
7.605043085	31.8%	80.0%	7	12	3	15	
9.152569514	27.3%	80.0%	6	12	3	16	
9.752635213	27.3%	86.7%	6	13	2	16	
10.43369202	22.7%	86.7%	5	13	2	17	
11.53556191	22.7%	93.3%	5	14	1	17	
12.56018381	18.2%	93.3%	4	14	1	18	
13.38389997	13.6%	93.3%	3	14	1	19	
17.11945792	9.1%	93.3%	2	14	1	20	
17.71010644	4.5%	93.3%	1	14	1	21	
54.23769026	0.0%	93.3%	0	14	1	22	
298.1897417	0.0%	100.0%	0	15	0	22	

Figure 40B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M16116_7 by SAMP_GRP

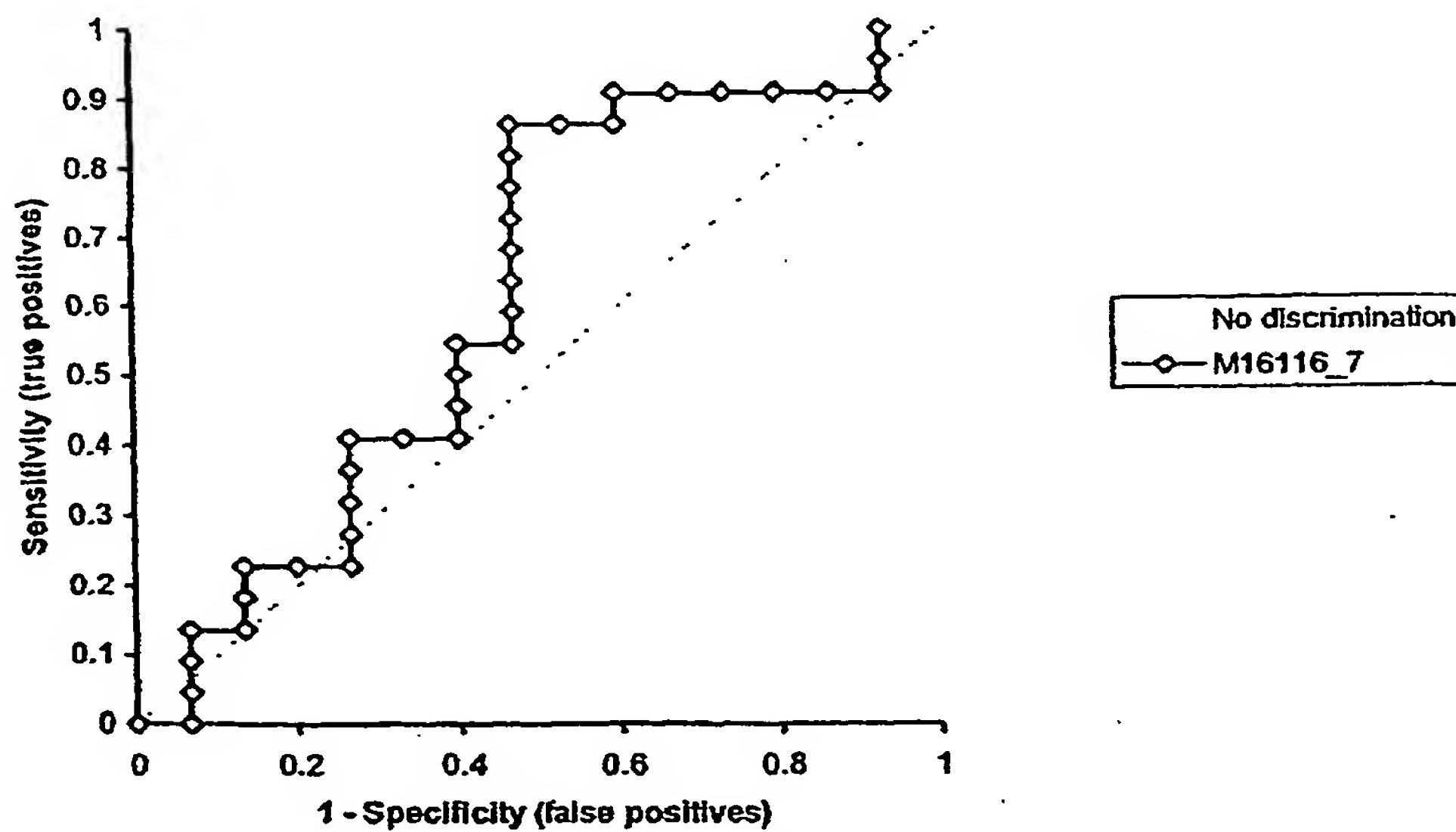
Performed by Benjamin Silverman

Date 16 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M16116_7	0.615	0.1011	0.1273	0.417 to 0.813	have higher values



M16116_7 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.110846445	100.0%	6.7%	22	1	14	0

FIGURE 41A

10/530017

Test	Receiver Operator Characteristic (ROC) curves					
	M16116_7 by SAMP_GRP					
Performed by	Benjamin Silverman				Date	16 August 2002
-0.080009221	95.5%	6.7%	21	1	14	1
0.13243982	90.9%	6.7%	20	1	14	2
0.132569031	90.9%	13.3%	20	2	13	2
0.132897016	90.9%	20.0%	20	3	12	2
0.141616725	90.9%	26.7%	20	4	11	2
0.191151907	90.9%	33.3%	20	5	10	2
0.242371361	90.9%	40.0%	20	6	9	2
0.292459979	86.4%	40.0%	19	6	9	3
0.373858157	86.4%	46.7%	19	7	8	3
0.401639062	86.4%	53.3%	19	8	7	3
0.461780418	81.8%	53.3%	18	8	7	4
0.472465163	77.3%	53.3%	17	8	7	5
0.499106112	72.7%	53.3%	16	8	7	6
0.504270861	68.2%	53.3%	15	8	7	7
0.62504857	63.6%	53.3%	14	8	7	8
0.720128095	59.1%	53.3%	13	8	7	9
0.724831498	54.5%	53.3%	12	8	7	10
0.899794601	54.5%	60.0%	12	9	6	10
0.931865595	50.0%	60.0%	11	9	6	11
0.9363429	45.5%	60.0%	10	9	6	12
0.995489407	40.9%	60.0%	9	9	6	13
1.135442279	40.9%	66.7%	9	10	5	13
1.18410198	40.9%	73.3%	9	11	4	13
1.280101252	36.4%	73.3%	8	11	4	14
1.510623299	31.8%	73.3%	7	11	4	15
1.519705578	27.3%	73.3%	6	11	4	16
1.739130465	22.7%	73.3%	5	11	4	17
1.739313948	22.7%	80.0%	5	12	3	17
1.77708523	22.7%	86.7%	5	13	2	17
2.036891128	18.2%	86.7%	4	13	2	18
2.867780521	13.6%	86.7%	3	13	2	19
3.247367684	13.6%	93.3%	3	14	1	19
3.500757425	9.1%	93.3%	2	14	1	20
4.574331216	4.5%	93.3%	1	14	1	21
6.042793811	0.0%	93.3%	0	14	1	22
222.0484769	0.0%	100.0%	0	15	0	22

Figure 41B

Test Receiver Operator Characteristic (ROC) curves

M25041_2 by SAMP_GRP

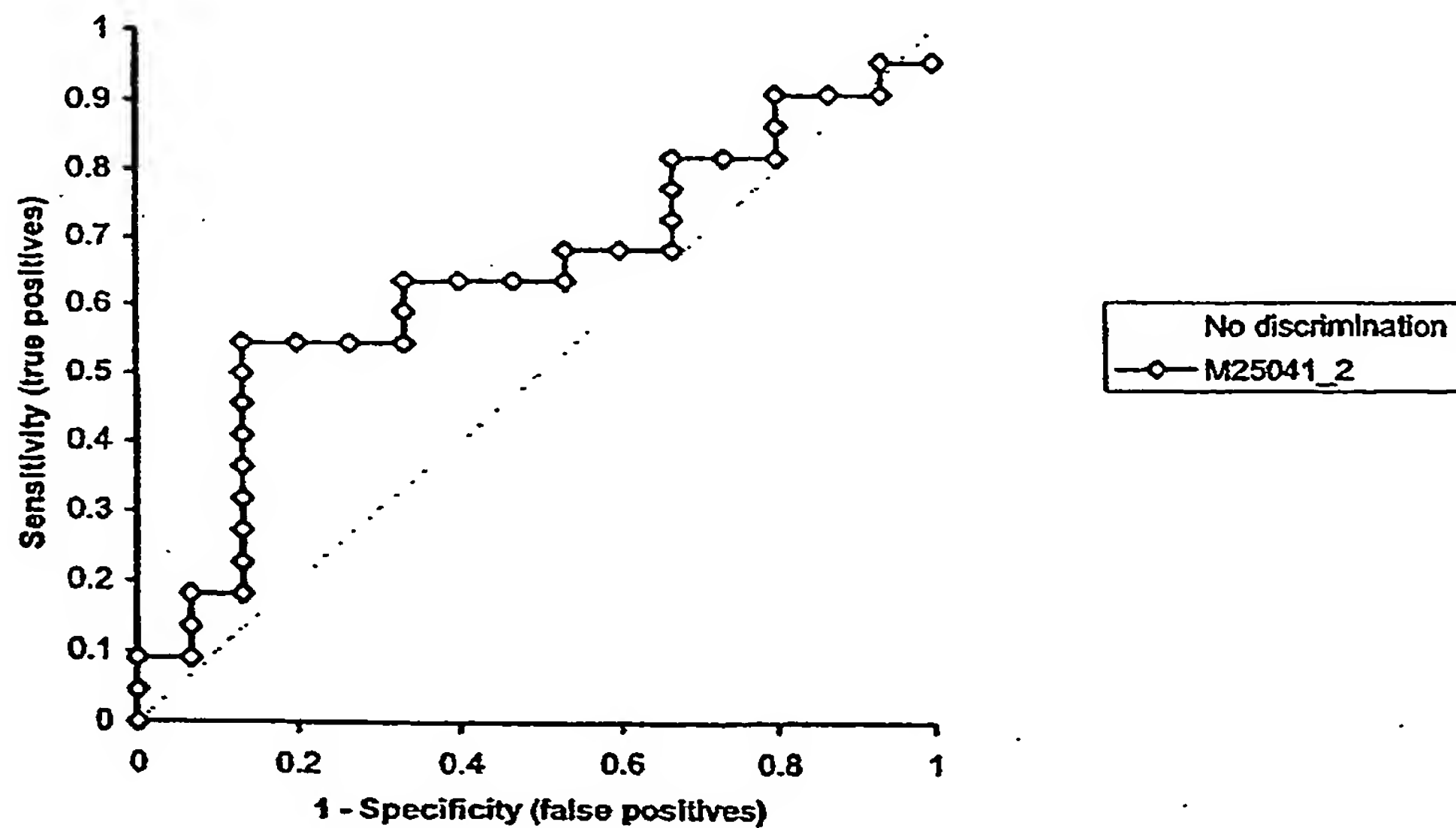
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M25041_2	0.639	0.0933	0.0675	0.457 to 0.822	have higher values



M25041_2 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.793645654	95.5%	0.0%	21	0	15	1

FIGURE 42 A

10/530017

Test	Receiver Operator Characteristic (ROC) curves						
	M25041_2 by SAMP_GRP						
Performed by	Benjamin Silverman					Date	14 August 2002
0.817153162	95.5%	6.7%	21	1	14	1	
1.082548537	90.9%	6.7%	20	1	14	2	
1.141165731	90.9%	13.3%	20	2	13	2	
1.237989017	90.9%	20.0%	20	3	12	2	
1.25499662	86.4%	20.0%	19	3	12	3	
1.343229757	81.8%	20.0%	18	3	12	4	
1.349329152	81.8%	26.7%	18	4	11	4	
2.081998999	81.8%	33.3%	18	5	10	4	
2.20479043	77.3%	33.3%	17	5	10	5	
2.232456456	72.7%	33.3%	16	5	10	6	
2.436031979	68.2%	33.3%	15	5	10	7	
2.577796281	68.2%	40.0%	15	6	9	7	
3.022638023	68.2%	46.7%	15	7	8	7	
3.292505173	63.6%	46.7%	14	7	8	8	
3.378232079	63.6%	53.3%	14	8	7	8	
3.569749296	63.6%	60.0%	14	9	6	8	
3.947644366	63.6%	66.7%	14	10	5	8	
4.017402491	59.1%	66.7%	13	10	5	9	
4.025797474	54.5%	66.7%	12	10	5	10	
4.641249207	54.5%	73.3%	12	11	4	10	
4.672013348	54.5%	80.0%	12	12	3	10	
5.0163702	54.5%	86.7%	12	13	2	10	
5.51431751	50.0%	86.7%	11	13	2	11	
6.121226492	45.5%	86.7%	10	13	2	12	
6.421619338	40.9%	86.7%	9	13	2	13	
6.493739417	36.4%	86.7%	8	13	2	14	
7.12459442	31.8%	86.7%	7	13	2	15	
9.376347689	27.3%	86.7%	6	13	2	16	
11.87108569	22.7%	86.7%	5	13	2	17	
12.68431208	18.2%	86.7%	4	13	2	18	
12.84424644	18.2%	93.3%	4	14	1	18	
16.49781271	13.6%	93.3%	3	14	1	19	
18.59015054	9.1%	93.3%	2	14	1	20	
23.26913367	9.1%	100.0%	2	15	0	20	
26.37159816	4.5%	100.0%	1	15	0	21	
34.36259113	0.0%	100.0%	0	15	0	22	

Figure 42B

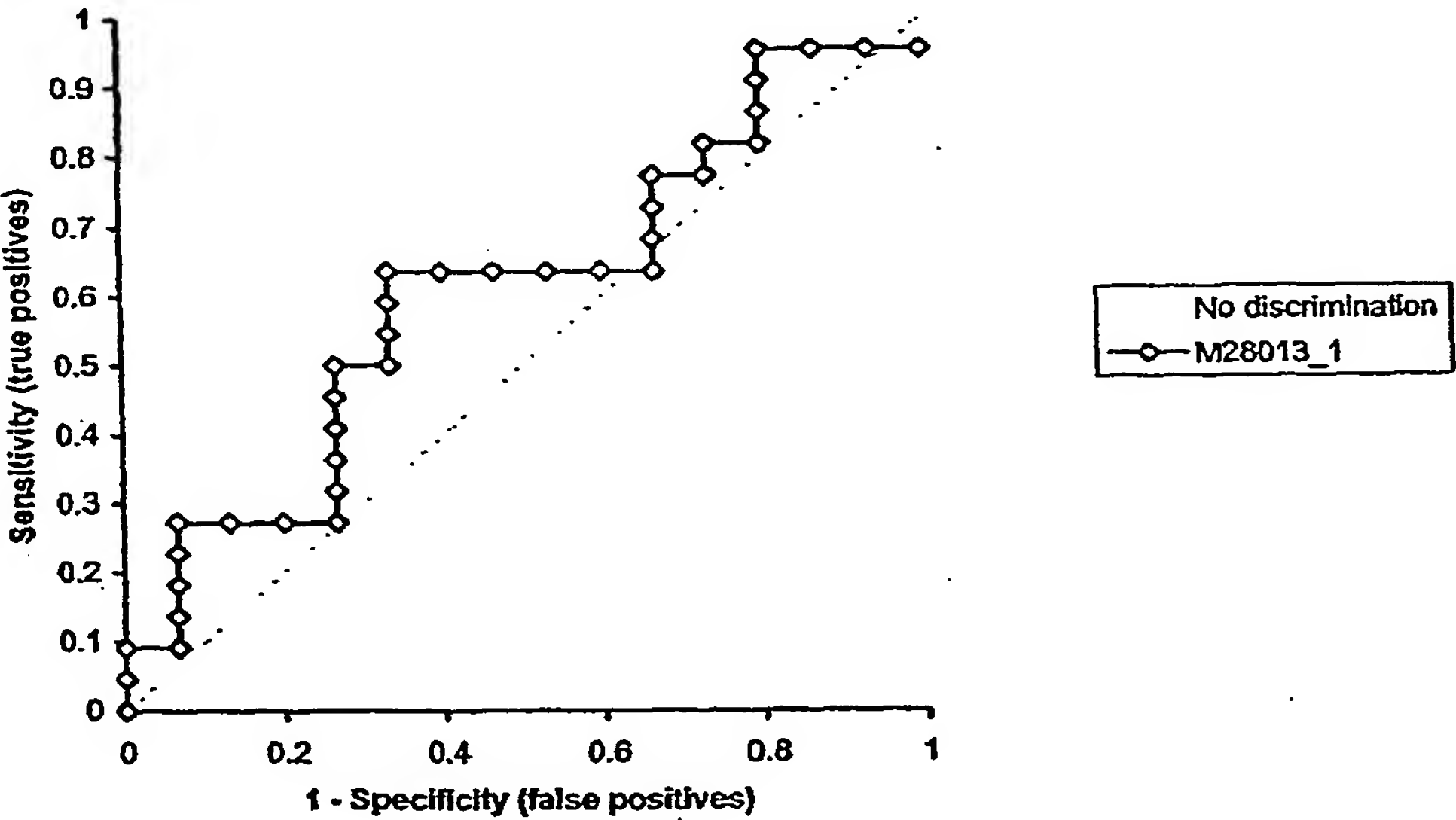
10/530017

Test	Receiver Operator Characteristic (ROC) curves		
	M28013_1 by SAMP_GRP		
Performed by	Benjamin Silverman	Date	14 August 2002

n | 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M28013_1	0.603	0.0954	0.1401	0.416 to 0.790	have higher values



M28013_1 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
-0.095035313	95.5%	0.0%	21	0	15	1

FIGURE 43A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M28013_1 by SAMP_GRP

Performed by Benjamin Silverman

Date 14 August 2002

0.008319371	95.5%	6.7%	21	1	14	1
0.010549266	95.5%	13.3%	21	2	13	1
0.102216294	95.5%	20.0%	21	3	12	1
0.113828147	90.9%	20.0%	20	3	12	2
0.1191118	86.4%	20.0%	19	3	12	3
0.126751464	81.8%	20.0%	18	3	12	4
0.139219149	81.8%	26.7%	18	4	11	4
0.143262373	77.3%	26.7%	17	4	11	5
0.159400568	77.3%	33.3%	17	5	10	5
0.175599876	72.7%	33.3%	16	5	10	6
0.237338251	68.2%	33.3%	15	5	10	7
0.253741367	63.6%	33.3%	14	5	10	8
0.261407068	63.6%	40.0%	14	6	9	8
0.275595468	63.6%	46.7%	14	7	8	8
0.282158382	63.6%	53.3%	14	8	7	8
0.297729343	63.6%	60.0%	14	9	6	8
0.313257239	63.6%	66.7%	14	10	5	8
0.323071775	59.1%	66.7%	13	10	5	9
0.414240943	54.5%	66.7%	12	10	5	10
0.431505021	50.0%	66.7%	11	10	5	11
0.4509231	50.0%	73.3%	11	11	4	11
0.46992756	45.5%	73.3%	10	11	4	12
0.560326976	40.9%	73.3%	9	11	4	13
0.697047262	36.4%	73.3%	8	11	4	14
0.8010417	31.8%	73.3%	7	11	4	15
1.017133662	27.3%	73.3%	6	11	4	16
1.019696331	27.3%	80.0%	6	12	3	16
1.023129053	27.3%	86.7%	6	13	2	16
1.053132432	27.3%	93.3%	6	14	1	16
1.26765639	22.7%	93.3%	5	14	1	17
2.161821389	18.2%	93.3%	4	14	1	18
2.231947361	13.6%	93.3%	3	14	1	19
2.681779385	9.1%	93.3%	2	14	1	20
4.009571403	9.1%	100.0%	2	15	0	20
5.061125972	4.5%	100.0%	1	15	0	21
21.26275531	0.0%	100.0%	0	15	0	22

Figure 43B

10/530017

Test Receiver Operator Characteristic (ROC) curves

M49972_1 by SAMP_GRP

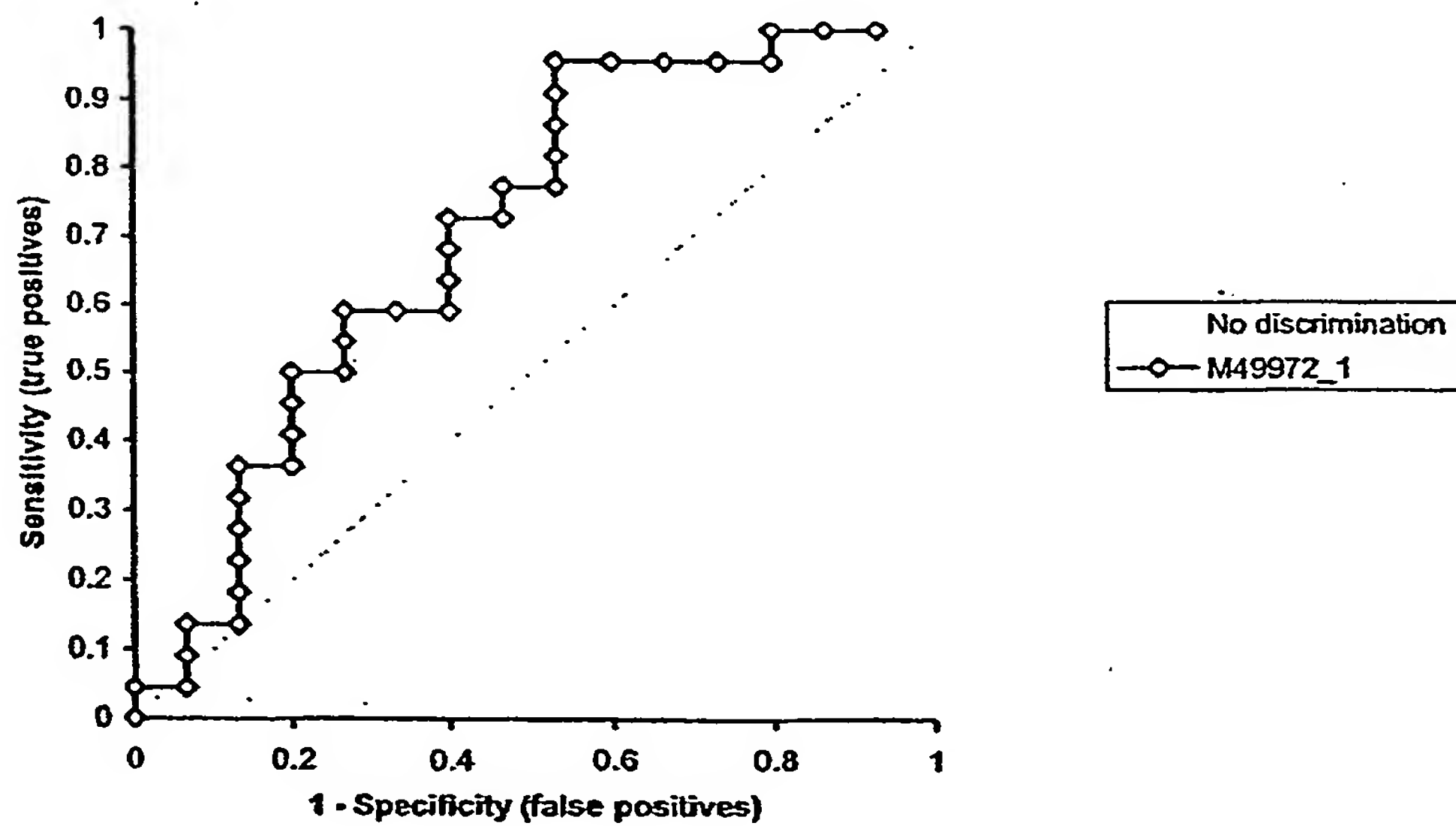
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M49972_1	0.703	0.0924	0.0140	0.522 to 0.884	have higher values



M49972_1 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.119948701	100.0%	6.7%	22	1	14	0

FIGURE 44A

10/530017

Test Receiver Operator Characteristic (ROC) curves

M49972_1 by SAMP_GRP

Performed by Benjamin Silverman

Date

14 August 2002

0.132950234	100.0%	13.3%	22	2	13	0
0.141985312	100.0%	20.0%	22	3	12	0
0.246235855	95.5%	20.0%	21	3	12	1
0.287564918	95.5%	26.7%	21	4	11	1
0.293882443	95.5%	33.3%	21	5	10	1
0.306763535	95.5%	40.0%	21	6	9	1
0.349275179	95.5%	46.7%	21	7	8	1
0.372101499	90.9%	46.7%	20	7	8	2
0.523240205	86.4%	46.7%	19	7	8	3
0.529789658	81.8%	46.7%	18	7	8	4
0.532304145	77.3%	46.7%	17	7	8	5
0.565558298	77.3%	53.3%	17	8	7	5
0.615696638	72.7%	53.3%	16	8	7	6
0.655358293	72.7%	60.0%	16	9	6	6
0.708502864	68.2%	60.0%	15	9	6	7
0.820163109	63.6%	60.0%	14	9	6	8
0.829209887	59.1%	60.0%	13	9	6	9
0.889935695	59.1%	66.7%	13	10	5	9
0.900952491	59.1%	73.3%	13	11	4	9
0.952218444	54.5%	73.3%	12	11	4	10
0.963450793	50.0%	73.3%	11	11	4	11
1.053272294	50.0%	80.0%	11	12	3	11
1.115031656	45.5%	80.0%	10	12	3	12
1.117385785	40.9%	80.0%	9	12	3	13
1.231643564	36.4%	80.0%	8	12	3	14
1.369123003	36.4%	86.7%	8	13	2	14
1.421508865	31.8%	86.7%	7	13	2	15
1.460854582	27.3%	86.7%	6	13	2	16
1.795777414	22.7%	86.7%	5	13	2	17
1.92994641	18.2%	86.7%	4	13	2	18
2.206108575	13.6%	86.7%	3	13	2	19
2.278575727	13.6%	93.3%	3	14	1	19
2.610392714	9.1%	93.3%	2	14	1	20
2.849559837	4.5%	93.3%	1	14	1	21
5.589760177	4.5%	100.0%	1	15	0	21
27.19836861	0.0%	100.0%	0	15	0	22

Figure 44B

10/530017

Test Receiver Operator Characteristic (ROC) curves

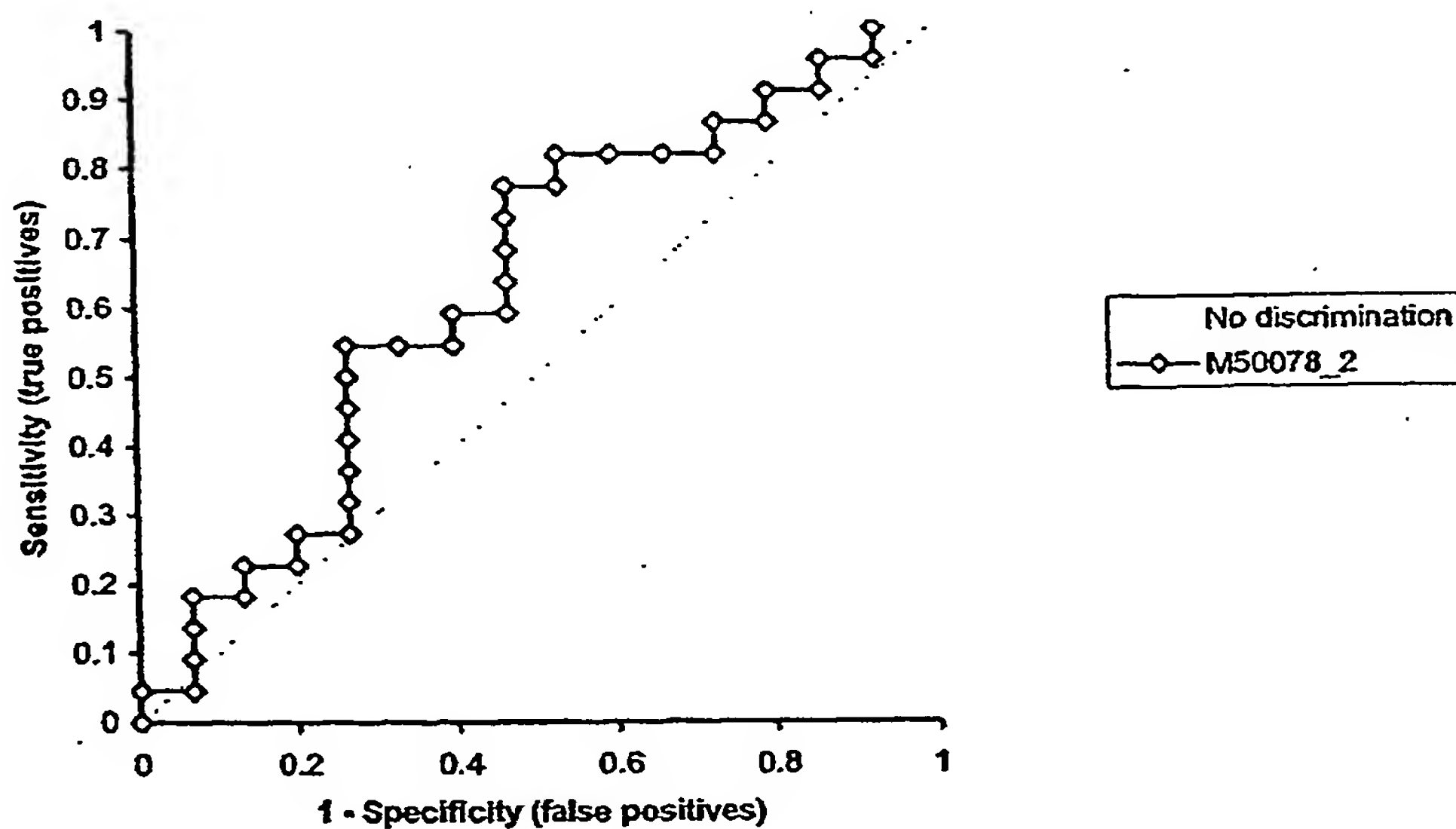
Performed by M50078_2 by SAMP_GRP
Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M50078_2	0.624	0.0966	0.0993	0.435 to 0.814	have higher values



M50078_2 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.083771249	100.0%	6.7%	22	1	14	0

FIGURE 45A

10/530017

Test	Receiver Operator Characteristic (ROC) curves						
	M50078_2 by SAMP_GRP						
Performed by	Benjamin Silverman					Date	14 August 2002
0.112192966	95.5%	6.7%	21	1	14	1	
0.187614661	95.5%	13.3%	21	2	13	1	
0.249307343	90.9%	13.3%	20	2	13	2	
0.263981414	90.9%	20.0%	20	3	12	2	
0.306532284	86.4%	20.0%	19	3	12	3	
0.338598049	86.4%	26.7%	19	4	11	3	
0.345538383	81.8%	26.7%	18	4	11	4	
0.39682968	81.8%	33.3%	18	5	10	4	
0.418253613	81.8%	40.0%	18	6	9	4	
0.433207988	81.8%	46.7%	18	7	8	4	
0.442596153	77.3%	46.7%	17	7	8	5	
0.523921441	77.3%	53.3%	17	8	7	5	
0.533559718	72.7%	53.3%	16	8	7	6	
0.580795124	68.2%	53.3%	15	8	7	7	
0.591320318	63.6%	53.3%	14	8	7	8	
0.66716828	59.1%	53.3%	13	8	7	9	
0.673010393	59.1%	60.0%	13	9	6	9	
0.749027671	54.5%	60.0%	12	9	6	10	
0.762425926	54.5%	66.7%	12	10	5	10	
0.795540626	54.5%	73.3%	12	11	4	10	
0.841469072	50.0%	73.3%	11	11	4	11	
0.887016568	45.5%	73.3%	10	11	4	12	
0.936274853	40.9%	73.3%	9	11	4	13	
1.151312518	36.4%	73.3%	8	11	4	14	
1.511400676	31.8%	73.3%	7	11	4	15	
1.530864328	27.3%	73.3%	6	11	4	16	
1.698991556	27.3%	80.0%	6	12	3	16	
1.701630079	22.7%	80.0%	5	12	3	17	
1.738942865	22.7%	86.7%	5	13	2	17	
1.742833851	18.2%	86.7%	4	13	2	18	
1.752666622	18.2%	93.3%	4	14	1	18	
2.427706313	13.6%	93.3%	3	14	1	19	
2.677791701	9.1%	93.3%	2	14	1	20	
2.690070914	4.5%	93.3%	1	14	1	21	
2.911184998	4.5%	100.0%	1	15	0	21	
18.44471648	0.0%	100.0%	0	15	0	22	

Figure 451

10/530017

Test Receiver Operator Characteristic (ROC) curves

M51107_4 by SAMP_GRP

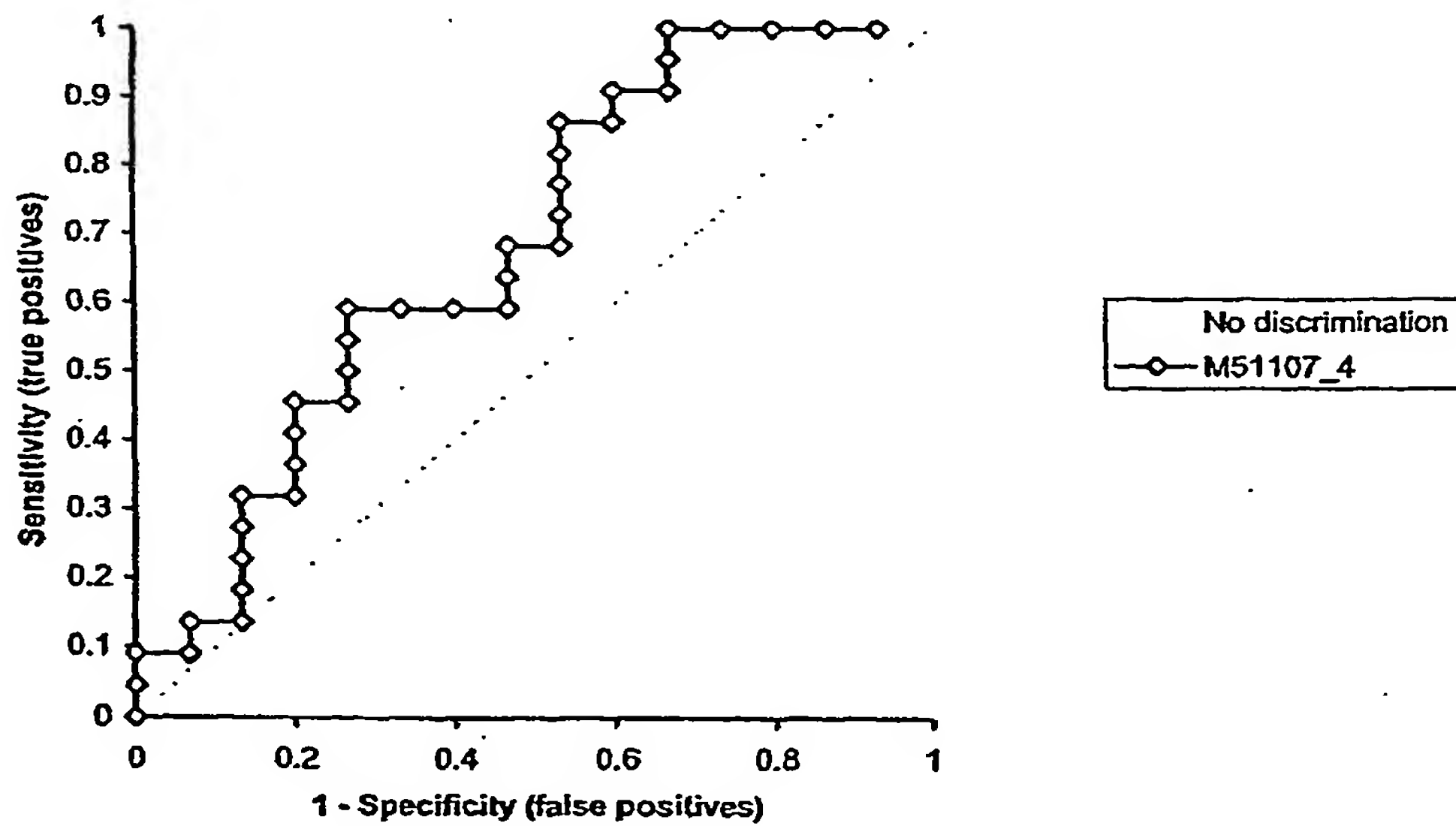
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M51107_4	0.682	0.0934	0.0258	0.499 to 0.865	have higher values



M51107_4 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.074699264	100.0%	6.7%	22	1	14	0

FIGURE 46A

92/99

10/530017

Test Receiver Operator Characteristic (ROC) curves

M51107_4 by SAMP_GRP

Performed by Benjamin Silverman

Date 14 August 2002

0.152211743	100.0%	13.3%	22	2	13	0
0.168812127	100.0%	20.0%	22	3	12	0
0.173776748	100.0%	26.7%	22	4	11	0
0.183833926	100.0%	33.3%	22	5	10	0
0.214125809	95.5%	33.3%	21	5	10	1
0.327567348	90.9%	33.3%	20	5	10	2
0.345779351	90.9%	40.0%	20	6	9	2
0.349354919	86.4%	40.0%	19	6	9	3
0.37344561	86.4%	46.7%	19	7	8	3
0.379220583	81.8%	46.7%	18	7	8	4
0.394515757	77.3%	46.7%	17	7	8	5
0.410858999	72.7%	46.7%	16	7	8	6
0.434554869	68.2%	46.7%	15	7	8	7
0.482603327	68.2%	53.3%	15	8	7	7
0.519551206	63.6%	53.3%	14	8	7	8
0.568891448	59.1%	53.3%	13	8	7	9
0.578992423	59.1%	60.0%	13	9	6	9
0.579319445	59.1%	66.7%	13	10	5	9
0.628011587	59.1%	73.3%	13	11	4	9
0.638395862	54.5%	73.3%	12	11	4	10
0.641159015	50.0%	73.3%	11	11	4	11
0.647907617	45.5%	73.3%	10	11	4	12
0.676375996	45.5%	80.0%	10	12	3	12
0.716268209	40.9%	80.0%	9	12	3	13
0.779127187	36.4%	80.0%	8	12	3	14
0.81686344	31.8%	80.0%	7	12	3	15
0.91401114	31.8%	86.7%	7	13	2	15
1.005058602	27.3%	86.7%	6	13	2	16
1.162282129	22.7%	86.7%	5	13	2	17
1.995799971	18.2%	86.7%	4	13	2	18
2.301850974	13.6%	86.7%	3	13	2	19
2.427576247	13.6%	93.3%	3	14	1	19
2.45915745	9.1%	93.3%	2	14	1	20
2.774302208	9.1%	100.0%	2	15	0	20
3.670288528	4.5%	100.0%	1	15	0	21
24.85935987	0.0%	100.0%	0	15	0	22

Figure 46B

93/99

10/530017

Test Receiver Operator Characteristic (ROC) curves

M51349_5 by SAMP_GRP

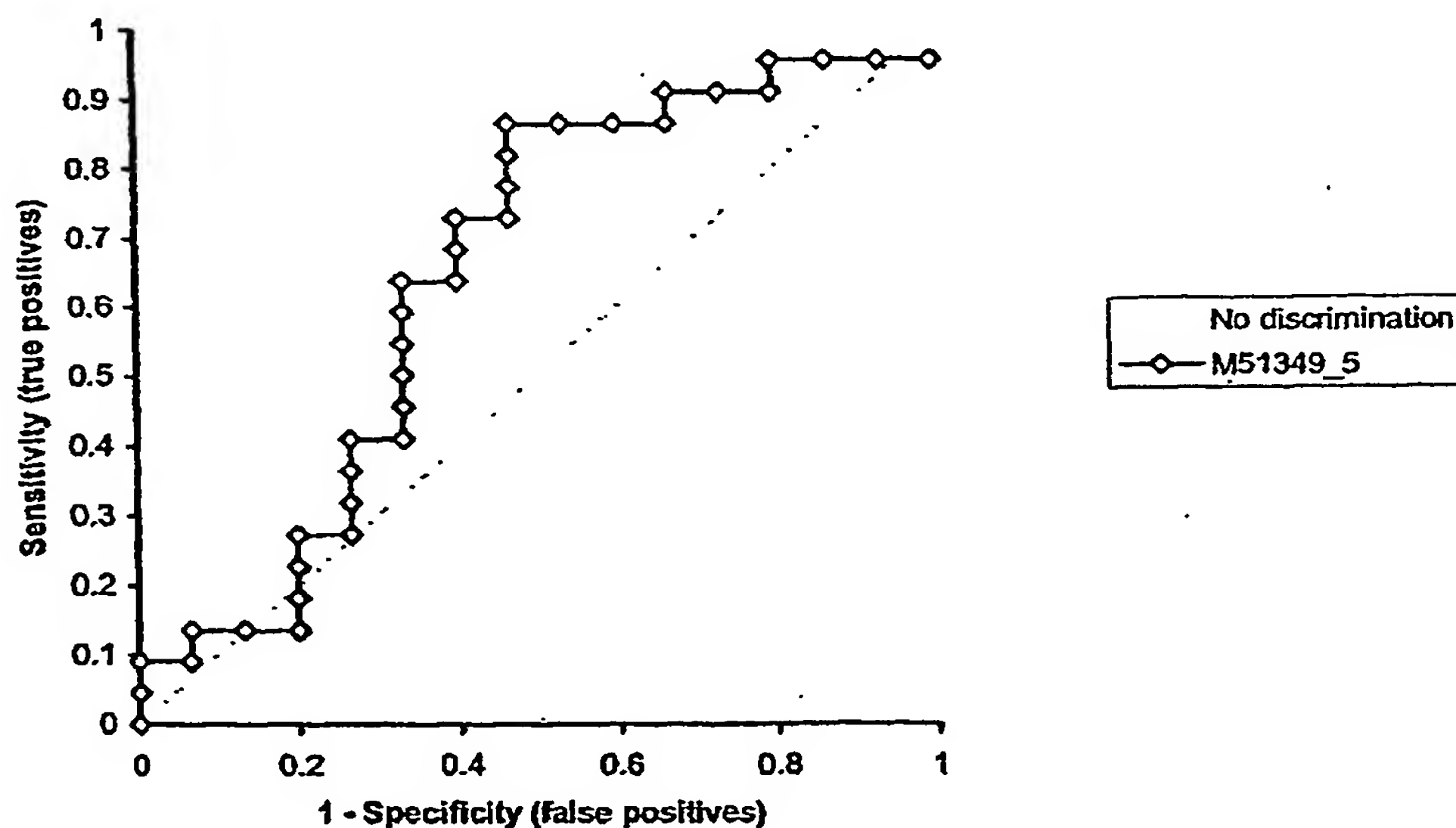
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M51349_5	0.645	0.0987	0.0704	0.452 to 0.839	have higher values



M51349_5 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.200166025	95.5%	0.0%	21	0	15	1

FIGURE 47A

10/530017

Test	Receiver Operator Characteristic (ROC) curves						
	M51349_5 by SAMP_GRP						
Performed by	Benjamin Silverman					Date	14 August 2002
0.24300717	95.5%	6.7%	21	1	14	1	
0.276544758	95.5%	13.3%	21	2	13	1	
0.407583283	95.5%	20.0%	21	3	12	1	
0.468872073	90.9%	20.0%	20	3	12	2	
0.50797997	90.9%	26.7%	20	4	11	2	
0.524022195	90.9%	33.3%	20	5	10	2	
0.553829455	86.4%	33.3%	19	5	10	3	
0.632492332	86.4%	40.0%	19	6	9	3	
0.668511881	86.4%	46.7%	19	7	8	3	
0.72469887	86.4%	53.3%	19	8	7	3	
0.898878277	81.8%	53.3%	18	8	7	4	
1.029316771	77.3%	53.3%	17	8	7	5	
1.075690084	72.7%	53.3%	16	8	7	6	
1.089240673	72.7%	60.0%	16	9	6	6	
1.114174748	68.2%	60.0%	15	9	6	7	
1.121500907	63.6%	60.0%	14	9	6	8	
1.249953453	63.6%	66.7%	14	10	5	8	
1.288068701	59.1%	66.7%	13	10	5	9	
1.602950201	54.5%	66.7%	12	10	5	10	
1.607855826	50.0%	66.7%	11	10	5	11	
1.647088646	45.5%	66.7%	10	10	5	12	
1.746212668	40.9%	66.7%	9	10	5	13	
1.951038891	40.9%	73.3%	9	11	4	13	
2.009460734	36.4%	73.3%	8	11	4	14	
2.05487892	31.8%	73.3%	7	11	4	15	
2.427358406	27.3%	73.3%	6	11	4	16	
2.511947452	27.3%	80.0%	6	12	3	16	
2.798550882	22.7%	80.0%	5	12	3	17	
2.924870548	18.2%	80.0%	4	12	3	18	
3.300701226	13.6%	80.0%	3	12	3	19	
3.830189124	13.6%	86.7%	3	13	2	19	
4.333103562	13.6%	93.3%	3	14	1	19	
5.408541047	9.1%	93.3%	2	14	1	20	
6.411934306	9.1%	100.0%	2	15	0	20	
12.05457475	4.5%	100.0%	1	15	0	21	
34.56426486	0.0%	100.0%	0	15	0	22	

Figure 47B

95/99

10/530017

Test Receiver Operator Characteristic (ROC) curves

M66959_0 by SAMP_GRP

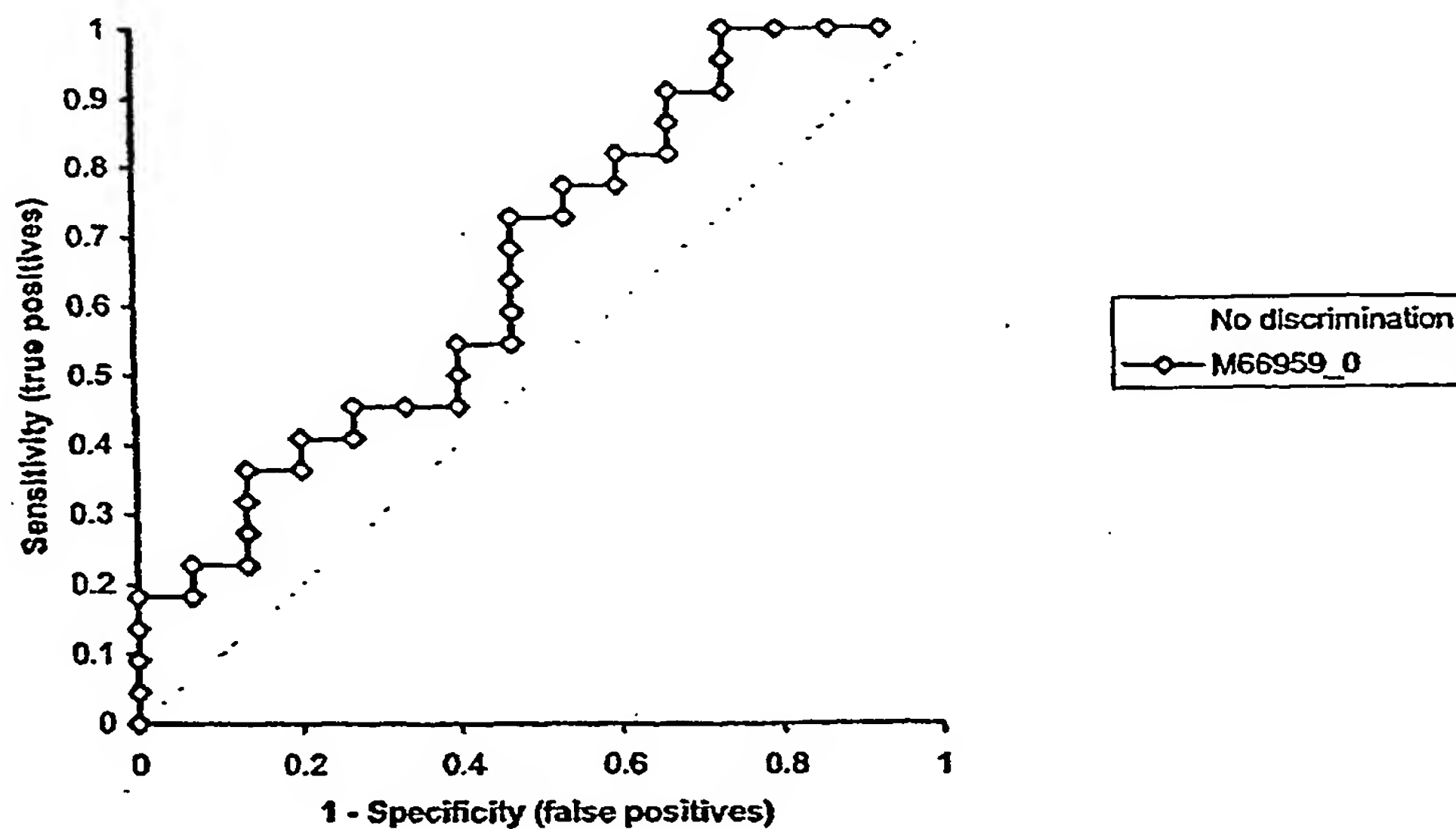
Performed by Benjamin Silverman

Date 14 August 2002

n 37

SAMP_GRP	n
0	15
1	22

Curve	Area	SE	p	95% CI of Area	SAMP_GRP = 1
M66959_0	0.658	0.0926	0.0445	0.476 to 0.839	have higher values



M66959_0 (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN
0.053847504	100.0%	6.7%	22	1	14	0

FIGURE 48A

10/530017

Test		Receiver Operator Characteristic (ROC) curves					
		M66959_0 by SAMP_GRP					
Performed by	Benjamin Silverman					Date	14 August 2002
0.109620497	100.0%	13.3%	22	2	13	0	
0.145348123	100.0%	20.0%	22	3	12	0	
0.154709652	100.0%	26.7%	22	4	11	0	
0.163431718	95.5%	26.7%	21	4	11	1	
0.166354524	90.9%	26.7%	20	4	11	2	
0.186467289	90.9%	33.3%	20	5	10	2	
0.219563493	86.4%	33.3%	19	5	10	3	
0.231184488	81.8%	33.3%	18	5	10	4	
0.253045556	81.8%	40.0%	18	6	9	4	
0.26206	77.3%	40.0%	17	6	9	5	
0.268399456	77.3%	46.7%	17	7	8	5	
0.286072607	72.7%	46.7%	16	7	8	6	
0.290123221	72.7%	53.3%	16	8	7	6	
0.305445727	68.2%	53.3%	15	8	7	7	
0.307085278	63.6%	53.3%	14	8	7	8	
0.339115437	59.1%	53.3%	13	8	7	9	
0.34631703	54.5%	53.3%	12	8	7	10	
0.382061205	54.5%	60.0%	12	9	6	10	
0.409515884	50.0%	60.0%	11	9	6	11	
0.423831733	45.5%	60.0%	10	9	6	12	
0.448975118	45.5%	66.7%	10	10	5	12	
0.467458457	45.5%	73.3%	10	11	4	12	
0.515844068	40.9%	73.3%	9	11	4	13	
0.518867449	40.9%	80.0%	9	12	3	13	
0.525211053	36.4%	80.0%	8	12	3	14	
0.562143936	36.4%	86.7%	8	13	2	14	
0.565406222	31.8%	86.7%	7	13	2	15	
0.773873943	27.3%	86.7%	6	13	2	16	
0.868229793	22.7%	86.7%	5	13	2	17	
1.024396807	22.7%	93.3%	5	14	1	17	
1.086151053	18.2%	93.3%	4	14	1	18	
1.2985479	18.2%	100.0%	4	15	0	18	
1.628046623	13.6%	100.0%	3	15	0	19	
1.853453489	9.1%	100.0%	2	15	0	20	
2.12018388	4.5%	100.0%	1	15	0	21	
3.039643834	0.0%	100.0%	0	15	0	22	

Figure 48

Sample Spectra

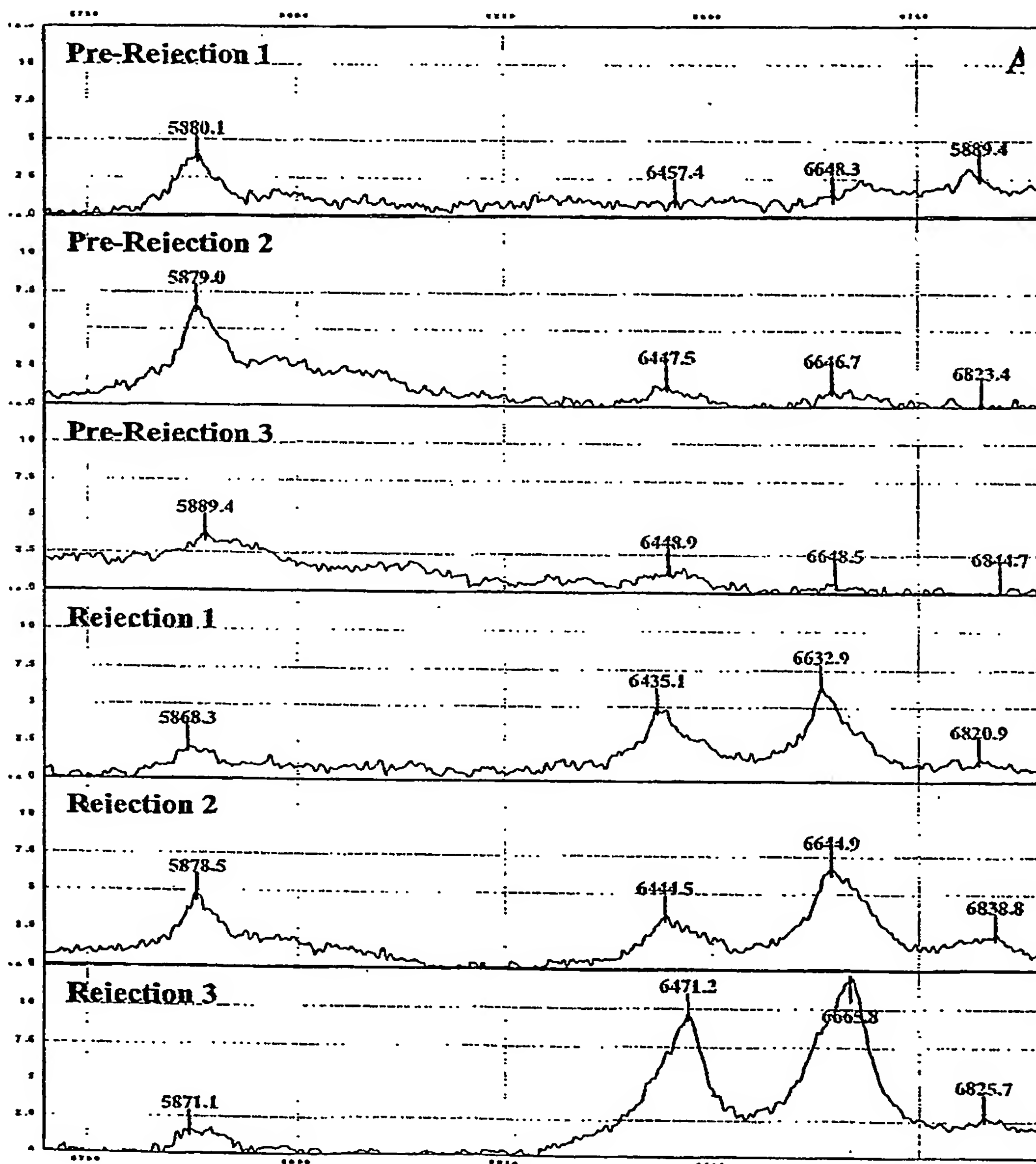


FIGURE 49

10/530017

662 Clarke and Others

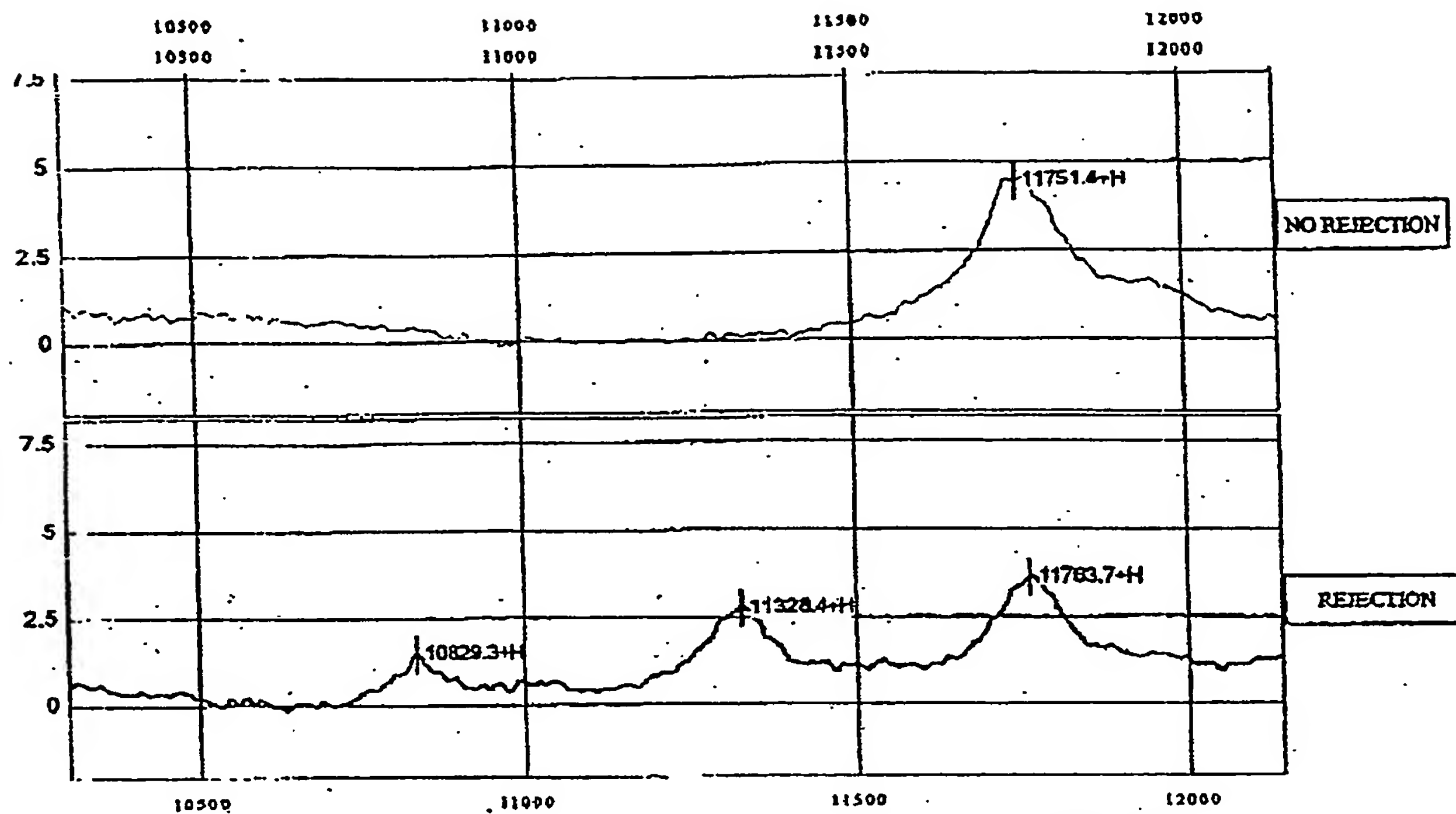


Figure 1. Sample mass spectra from a nonrejection patient and a rejection patient.

FIGURE 50

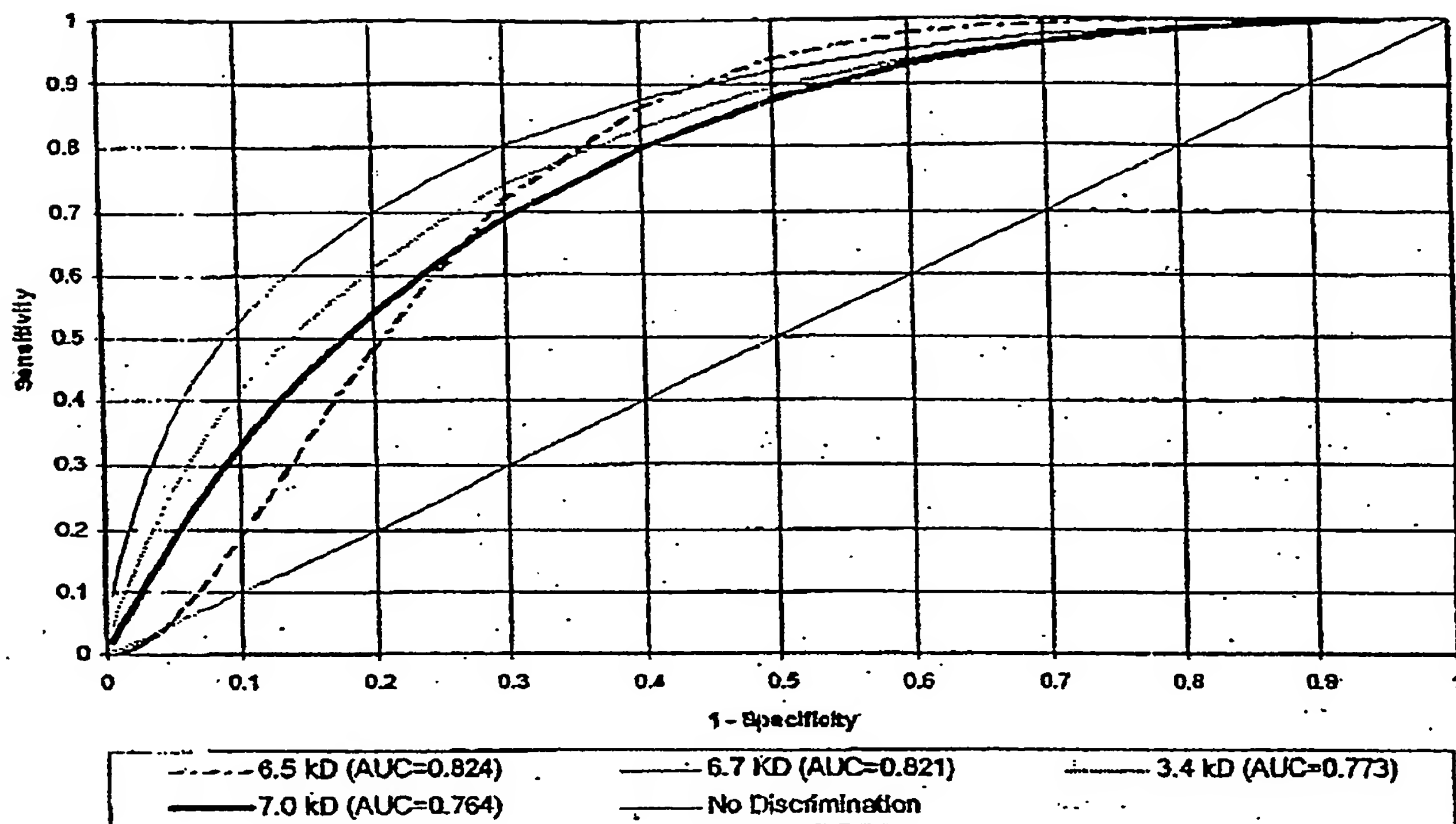


Figure 2. ROC analysis of candidate biomarkers.

FIGURE 51